MUTOH
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Operation Instructions

Europe / Africa / Middle East only

MUTOH
Osprey
large format inkjet printer

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TABLE OF CONTENTS

1 REGULARISATION AND SAFETY INFORMATION 7

1.1 INTRODUCTION 7
1.2 COMPLY WITH FOLLOWING REGULATIONS 7
1.3 WARNINGS, CAUTIONS AND NOTES 7
1.4 IMPORTANT SAFETY INSTRUCTIONS 8
1.5 WARNING LABELS 12
1.5.1 Handling the warning labels 12
1.5.2 Locations and types of warning labels 12
1.6 OPERATION LABELS 16
1.6.1 Handling notices 16
1.6.2 Label types and attaching positions 16

2 PRODUCT OVERVIEW 19

2.1 PARTS NAME AND FUNCTIONS 19
2.1.1 Front section 19
2.1.2 Rear section 20
2.1.3 Operation panel 21
2.2 IN-THE-BOX CONTENTS 23
2.2.1 Items in the printer box 23
2.2.2 Items in the accessory box 23
2.2.3 Starterkit 24
2.2.4 Core Brace Set 24
2.3 INSTALLATION REQUIREMENTS 25

3 BASICS 27

3.1 SWITCHING THE POWER ON/OFF 27
3.1.1 Switching the power ON 27
3.1.2 Switching the power OFF 29
3.2 MEDIA HANDLING 32
3.2.1 Placement of the roll media 33
3.2.2 Using the media core braces. 35
3.2.3 Loading roll media 36
3.2.4 Setting winding unit 40
3.2.5 Setting media type 43
3.3 REFILLING THE INK AND JET WASH FLUID 45
3.4 DISPOSAL OF WASTE FLUIDS 47
3.5 TRANSFER AND TRANSPORTATION 48
3.5.1 Transferring the printer 48
3.5.2 Transporting the printer 49
3.6 LONGSTORE 50

4 PERIODICAL MAINTENANCE 55

4.1 DONE BY END USER 55

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4.1.1 Cleaning the printer 55
4.1.2 Cleaning the outer case 55
4.1.3 Cleaning inside the printer 55
4.1.4 Cleaning of the print head surface 56
4.1.5 Replacing sponge for spitting box 56
4.1.6 Washing print head 58
4.2 DONE BY AN AUTHORIZED MUTOH TECHNICIAN 62
4.2.1 Replacing ink filter 62

5 PREPARATIONS BEFORE PRINTING 63

5.1 USING MEDIA 63
5.1.1 Media type 63
5.1.2 Cautions on handling media 63
5.1.3 Precaution on storing media 64
5.1.4 The printing area 64
5.1.5 Criteria for the media feed 65
5.1.6 Installing media retainers 66
5.2 HEAD CLEANING BEFORE PRINTING 68
5.2.1 Perform a purge 68
5.2.2 Wipe the heads 69
5.3 SET THE CORRECT DISTANCE ADJUST (STEP) 70
5.3.1 Basics about the step 70
5.4 PRINTING FLOW 72

6 PRINTER MENU 73

6.1 HOW TO WORK IN THE MENU 73
6.1.1 Main screen 73
6.1.2 Menu screen 74
6.1.3 Changing between the screens 74
6.2 OPERATION PANEL IN STANDBY MODE 75
6.2.1 [F1] – Cancel 75
6.2.2 [F2] - Operating the pressure rollers 75
6.2.3 [F3] – Winding the roll media 76
6.2.4 [F4] - Cleaning the heads 78
6.3 OPERATION PANEL DURING PRINTING 80
6.3.1 Parameter change 80
6.3.2 HEATER 81
6.3.3 Media feed compensation 81
6.3.4 Changing Printing Mode 82
6.4 OPERATIONS AFTER PRINTING 83
6.4.1 Roll media cutting procedure 83
6.5 SETUP MENU 85

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1 REGULARISATION AND SAFETY INFORMATION

1.1 INTRODUCTION

This Item explains the meaning of safety terms for personnel who operates this equipment, important safety instructions and the positioning of the warning labels.

Be sure to read and understand the safety warnings before handling the printer.

1.2 COMPLY WITH FOLLOWING REGULATIONS

The CE marking is a mandatory European marking for certain product groups to indicate conformity with the essential health and safety requirements set out in European Directives.

By affixing the CE marking, the manufacturer, his authorized representative, or the person placing the product on the market or putting it into service ensures that the item meets all the essential requirements of all applicable EU directives and that the applicable conformity assessment procedures have been applied.

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC – WEEE regulation.

Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

1.3 WARNINGS, CAUTIONS AND NOTES

Safety terms in this manual and the contents of warning labels attached to the printer are categorized into the following three types depending on the degree of risk (or the scale of accident).
Read the following explanations carefully, and follow the instructions in this manual.

Safety terms	Details
Important	Must be followed carefully to avoid death or serious bodily injury.
Caution	Must be observed to avoid bodily injury (moderately or lightly) or damage to your equipment.
Notes	Contains important information and useful tips on the operation of your printer.

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1.4 IMPORTANT SAFETY INSTRUCTIONS

General safety instructions that must be observed to use the equipment safely are explained below.

- Do not place the printer in the following areas. Doing so may result in the printer tipping or falling over and causing injury.
  - Unstable surfaces
  - Angled place
  - Areas subject to vibration by other equipment
- Do not stand on or place heavy objects on your printer. Doing so may result in the printer tipping or falling over and causing injury.
- Do not cover the ventilation hole of your printer with cloth, such as a blanket or table cloth. Doing so could obstruct ventilation and cause fire.
- Do not place the printer in humid and dusty areas. Doing so may result in electrical shock or fire.
- Do not use a damaged power cable. Doing so may result in electrical shock or fire.
- Do not attempt to plug in electrical plugs with wet hands. Doing so may result in electrical shock.
- Do not connect earth cables in the following areas.
  - Gas pipes

Doing so may cause fire or an explosion.

- Earth terminals for telephone line or lightening rod

Doing so may cause a large flow of voltage if lightening occurs.

- Water pipes or faucets

If there is a plastic part in the pipe, the earth will not work properly.

- The ink used in the product contains an organic solvent (CYCLOHEXANONE). It is flammable so open flame is prohibited in the area. In a dry environment, static electricity can cause ignition, so before handling the ink, jet wash fluid or waste liquids, touch a metallic object first to remove static electricity from your body. Do not near materials having static, and take appropriate measures against static electricity.
- Do not insert or drop metal or inflammable objects into openings, such as ventilation outlets. This may cause electrical shock or fire.
- Stop using your printer if a liquid is spilled into it. This may cause electrical shock or fire. Switch the printer OFF as soon as possible, unplug the power cord, contact MUTOH local dealer.
- Be sure to use the attached cable. Otherwise, electrical shock or fire may occur.
- Be sure to use the specified voltage (AC 100 V- 120 V or AC 220 V - 240 V). Otherwise, electrical shock or fire may occur.
- Use electricity directly from a power outlet (AC 100 V- 120 V or AC 220 V - 240 V). Do not put many loads on one electrical output. Otherwise, heat may be generated and cause fire.
- Be sure to use an outlet with an earth terminal and use the terminal correctly. Otherwise, electrical shock or fire may occur.
- The ink used in this product contains an organic solvent (CYCLOHEXANONE). Make sure to follow the industrial waste disposal laws and ordinances of your local governments.
  It is necessary to install a local ventilation unit, push/pull type ventilation unit, or a total ventilation unit to perform adequate ventilation.
- If ink or jet wash fluid is swallowed, do not make the person throw up, but immediately call a doctor and a poison management centre.

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If there is contact in eyes or inhalation, it may cause poisoning. Follow the cautions and procedures labelled on the ink and jet wash bottles, and take action immediately.

- The waste fluid from the printer is a waste oil (waste ink) of industrial waste. Proper waste fluid disposal according to industrial waste disposal laws and ordinances of your local governments are required.
- Follow the instructions below when handling the power cable.
  - Do not modify the cable
  - Do not put heavy objects on the cable
  - Do not bend, twist, or pull the cord
  - Do not wire the cable near equipment that generates heat
- Follow the instructions below when handling the power plug. Otherwise, fire may occur.
  - Wipe away dust and any other residue before inserting the plug.
  - Ensure that the plug is firmly inserted as far as it will go.
- When handling the foot switch, be wary of the following:
  - Do not place anything heavy on the foot switch
  - Do not bend the cable of the foot switch with force, and do not pull.

Do not place the foot switch near thermal devices.

- When opening/closing the front cover and the maintenance cover, be careful not to get fingers caught in the lid.
- The refilled ink or jet wash fluid must not exceed the upper limit (about 2 litres) of the main tank. If it exceeds the upper limit, the ink will leak out and cause printer problems.
- When filling the main tank with ink, make sure not to make a mistake with the ink colour and the ink tube colours.
- Filling the tank with wrong colour ink can make the print head useless.
- During printing, do not touch the media guide. The media guide is hot, and may cause burns if touched.
- During the winding operation, make sure to keep hands and fingers clear of moving parts.
- When cutting the roll media, be careful of the following. Incorrect handling can result in injury to the hands and fingers from the razor blade.
  - When holding the media, do not place fingers over the media cut groove.
  - Move the razor blade slowly along the media cut groove.
- Do not use the jet-wash fluid, thinner, Benzene, alcohol, or other active agents except for the following parts.
  Doing so may result a malfunction in the product.
  - Inside the maintenance cover
  - Print head surface
- Be careful not to spill water inside the printer. Doing so may result in a short circuit.
- Never open the covers fixed with screws. Doing so may result in electrical shock or a malfunction in the printer.
- When cleaning the print head, be careful of the following. Incorrect cleaning may result in clogging of the nozzles.
  - Do not touch the print head surface with bare hands.
  - Wipe out ink on the print head wiper every time when ink is adhered to it.

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- Do not tilt the printer, stand it against a wall, or turn it upside down. Doing so may cause ink to leak inside the printer. Also, movement after transport is not covered by the warranty.
- Have two or more people unpack and transport the printer.
- When lifting the printer out of the packing box, be sure to remove the vinyl cover first, then grab the holding sides of the printer. Lifting the printer with the vinyl cover on may cause your hands to slip and drop or damage the printer.
- Ensure that the plug has been disconnected from the power socket when it is not to be used for a long time.
- Earth wires must be connected to wires or terminals that fulfil the conditions below.
  - Earth terminals of power socket
  - Earth wires with copper morsel that is at least 650 mm under ground
- When refilling ink or jet wash fluid, always wear the protective gloves supplied with the unit.
- The ink and jet wash fluid are poisonous. If skin contact occurs, wash with soap water and rinse well.
- Be sure to close the lid of the main tank tightly. If the lid is not tightly closed or loose, it will cause a defect when purging, loading or unloading the ink.
- When performing the following work, always perform work with 2 people.
  - Placement of the roll media
  - Setting of the roll media
  - Setting of the winding unit
- When perform the head cleaning:
  - Put the gloves supplied with the printer on both hands.
  - Only use the print head wiper supplied with the printer. Otherwise the nozzle may become clogged.
- Immediately after printing, the media guide and the platen is very hot. Perform work after the media guide and the platen has cooled off.
- When cleaning the waste fluid tray, always wear the protective gloves supplied with the unit.
- When cleaning the print head surface, always wear the protective gloves supplied with the unit.
- When performing cleaning for long-term storage, always wear the protective gloves supplied with the unit.
- Be sure to switch the printer OFF and unplug the power cord before cleaning.
- Keep the printer horizontal during transportation.
- Before installation of options, always perform the following.
  - Switch the power source to the product OFF.
  - Remove the power source plug from the outlet.
  - Remove all cables connected to the printer.

Failure to do so could result in damage to the printer or your computer.

  - Touch a metallic section of the product, to remove any static electricity in your body. The electronic components can be damaged from static electricity.
- When installing options, do not touch the elements on the circuit board. The elements on the boards can be very hot, and can cause burns.
- When moving the print head cap into the accessory box after removed from the printer, discharge the waste fluid from the print head cap enough. Otherwise the waste fluid may spilled out.

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- Keep the print head cap away from the dust and other contaminants. Otherwise the print head may become clogged.
- Do not cut a poly-nit wiper over the print head cap. Otherwise the print head may become clogged with lint.
- Be sure to remove pilling and lint on the cutting edge of poly-knit wiper. Otherwise the printhead may become clogged.
- When the cap sponges and the poly-net wipers become dry, always replace them with new ones. Otherwise the print head may become clogged.
- Keep the print head cap clean when using, otherwise the print head may become clogged.
- When switching the power OFF, always install the print head cap. Otherwise the nozzle may become clogged.
- In connecting the network interface, ensure the following precautions. Wrong handling may cause electric shock and/or fire.
- Never touch the connection terminals.
- Do not connect cables of different connection terminals in shape
- Carefully open/close the ink box cover to avoid finger pinching.
- When the sponge for spitting box is replaced, be careful of waste fluid not to be spilled out.
- If waste fluid comes into contact with the grid roller, the surface of the grid roller will be damaged. And the media feed function may be affected.
- Please bump to the rear side without fail and install it when you install sponge for spitting box. The waste liquid might overflow.
- When performing washing print head, always wear the protective gloves supplied with the unit.

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1.5 WARNING LABELS

The handling, attachment locations, and types of warning labels are explained below.
Warning labels are attached to areas where care should be paid. Read and understand the positions and contents thoroughly before performing your work.

1.5.1 Handling the warning labels

Be sure to note the following when handling the warning labels

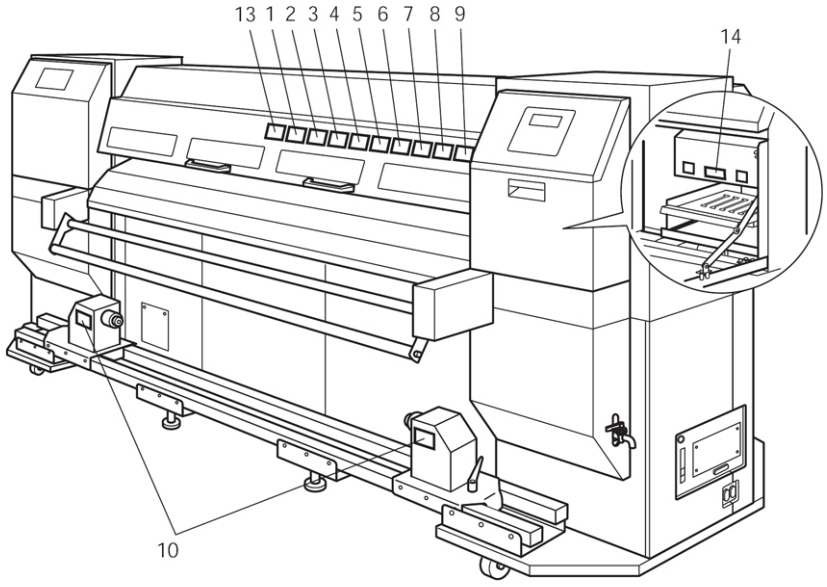
⚠ Notes ⚠

- Make sure that all warning labels can be recognized. If text or illustrations cannot be seen clearly, clean the label.
- When cleaning warning labels, use a cloth with water or neutral detergent. Do not use a solvent or gasoline.
- If a warning label is damaged, lost, or cannot be recognized, replace the label.
- When replacing warning labels, contact MUTOH local dealer.

1.5.2 Locations and types of warning labels

The locations of warning labels are shown below.

Front



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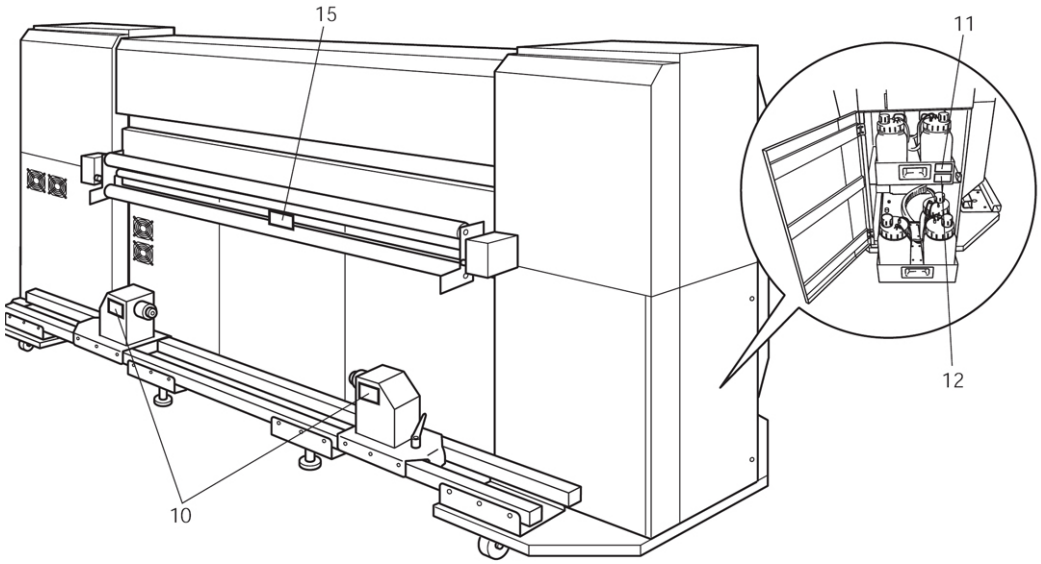
Back



No.	Type
1	**⚠ CAUTION 주 의 注 意** ◆If the printer will not be used for 7 days or more, always perform long-storage cleaning. Leaving the printer unused for a long period without performing long-storage cleaning can cause the ink in the print head nozzles to solidify and lead to print head faults. ◆7일 이상 인쇄기를 사용하지 않을 경우에는 반드시 장기보존 클리닝을 실시하여 주십시오. 장기보존 클리닝을 실시하지 않고 방치해두면 헤드 노즐 내부의 잉크가 굳어져 헤드 고장의 원인이 됩니다. ◆7天以上不使用打印机时，请务必进行长期保管清洗。 任其放置，会引起墨水喷嘴内的墨水凝固，导致喷头故障。
2	**⚠ CAUTION 주 의 注 意** ◆Always attach the caps when the power is switched off or a serious error or fault occurs. Leaving the caps off can cause the ink in the print head nozzles to solidify and lead to print head faults. ◆전원 OFF일 때나 심한 트러블이 발생한 때에는 반드시 캡을 장착해 주십시오. 그대로 방치해두면 헤드 노즐 내부의 잉크가 굳어져 헤드 고장의 원인이 됩니다. ◆当电源关闭或发生重大故障时，请务必装上防护罩。 任其放置，会引起墨水喷嘴内的墨水凝固，导致喷头故障。
3	**⚠ CAUTION 주 의 注 意** ◆Do not leave the printer's front cover or flushing box cover open for 10 minutes or longer during printing or standby. Routine ink ejection stops, which can cause the ink in the print head nozzles to solidify and lead to print head faults. ◆인쇄중이나 대기중에는 기계의 프런트 커버와 플래싱 박스의 커버를 10분 이상 열어둔 채 놓아두지 말아 주십시오. 정기 토출이 정지되고 헤드 노즐 내부의 잉크가 굳어져 헤드 고장의 원인이 됩니다. ◆在印刷或待机时，机器的前罩和冲洗槽盖的打开时间请勿超过10分钟。 否则会导致定期喷墨停止，墨水喷嘴内的墨水凝固，造成喷头故障。

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4

⚠ CAUTION 주 의 注 意

◆Do not direct the airflow from a fan or air-conditioner straight onto the printer. Breezes can cause the ink in the print head nozzles to solidify and lead to print head faults and can also interfere with ink ejection so that optimum printing results are not obtained.

◆기계에 송풍기나 공기 조절장치의 바람을 직접 대지 말아 주십시오. 바람에 의해 헤드 노즐 내부의 잉크가 굳어져 헤드 고장의 원인이 되거나 잉크 토출에 영향을 끼쳐 만족스러운 인쇄 결과를 얻을 수 없는 경우가 있습니다.

◆**请勿将鼓风机和空调装置直接对准机器送风。冷风会使墨水喷嘴内的墨水凝固，造成喷头故障，以致影响喷墨而得不到理想的打印效果。**

5

⚠ CAUTION 주 의 注 意

◆When a winder is used, secure the media in the paper container for the winder before printing. If you secure the media during printing, optimum printing results may not be obtained due to variation in the media transport conditions.

◆권취 사용시에는 인쇄하기 전에 권취 용지관에 미디어를 고정시킨 뒤 실시하여 주십시오. 인쇄 도중에 고정시키면 미디어의 반송 조건이 변하기 때문에 만족스러운 인쇄 결과를 얻을 수 없는 경우가 있습니다.

◆**使用卷取时，请在印刷前将介质固定于卷取用纸筒上以后再进行操作。在印刷中进行固定时，由于介质的运送条件发生变化，会出现不理想的印刷结果。**

6

⚠ CAUTION 주 의 注 意

◆When you are using a media such as tarpaulin paper that becomes tacky when heated, apply tack-prevention mesh to the paper guides before printing. Paper jams caused by tacky media can result in damage to the printer mechanism.

◆방수포 등 열을 받으면 점착성이 생기는 미디어를 사용할 경우에는 페이퍼 가이드에 부착 방지망을 장착하고 인쇄해 주십시오. 달라붙어 막힘 현상이 발생하고 기계가 파손될 우려가 있습니다.

◆**使用因油布等的热量而产生粘性的介质时，请将防粘网安装在导纸板上后再进行印刷。因粘连而发生卡纸时，有可能会损坏机器。**

7

⚠ CAUTION 주 의 注 意

◆Do not touch the paper guides during data transfer, during printing or immediately after printing. Depending on the drying heater temperature setting, the paper guides may become hot and could cause burns.

◆데이터 송신중・인쇄중・인쇄 직후에는 페이퍼 가이드를 만지지 말아 주십시오. 건조 히터의 온도 설정으로 인해 페이퍼 가이드가 고온으로 되기 때문에 화상을 입을 우려가 있습니다.

◆**请勿触摸正在发送数据、印刷及刚印刷后的导纸板。干燥加热器的温度设定，会造成导纸板高温，有烫伤的危险。**

8

⚠ CAUTION 주 의 注 意

◆Do not touch the paper guides during data transfer, during printing or immediately after printing. Depending on the drying heater temperature setting, the paper guides may become hot and could cause burns.

◆데이터 송신중・인쇄중・인쇄 직후에는 페이퍼 가이드를 만지지 말아 주십시오. 건조 히터의 온도 설정으로 인해 페이퍼 가이드가 고온으로 되기 때문에 화상을 입을 우려가 있습니다.

◆**请勿触摸正在发送数据、印刷及刚印刷后的导纸板。干燥加热器的温度设定，会造成导纸板高温，有烫伤的危险。**

9

CAUTION VORSICHT ATTENTION

> Do not open the front cover or touch the media during printing.This will result in poor image quality.
> If no printing is to be done for some time, remove the media and put the pressure rollers in the up position. Otherwise the media may lift up and become wrinkled and you will not be able to obtain good printing results.

> Öffnen Sie während des Druckens die Frontabdeckung nicht und berühren Sie das Druckmaterial nicht.
> Wenn Sie wärhend längere Zeit den Drucker nicht benutzen, nehmen Sie das Druckmaterial heraus und stellen Sie die Drucksrollen in die obersten Position. Sonst kann sich das Druckmaterial aufheben und zerknittern und demzufolge erzielen Sie keine gute Druckergebnisse mehr.

> N'ouvrez pas le couvercle quand l'imprimante est en train d'imprimer. Ne touchez pas non plus le papier afin d'éviter que la qualité s'aggrave.
> Si vous ne comptez pas imprimer pendant un certain temps, retirez le papier et mettez les rouleaux de pression en position levée. Sinon, le support risque de se soulever et de se froisser et vous n'obtiendrez pas de bonne qualité d'impression.

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10

⚠ CAUTION 주 의

◆When the printer is working with the media tube mounted, please be careful not to let your clothing hair or fingers get caught between the media tube and the rollers, otherwise you may be injured.

◆지관 장착 시나 프린트 동작 중에는 지관와 롤러 의 사이에 의류, 머리카락, 손가락 등이 말려 들어가지 않도록 해 주십시오.말려들어가 다칠 우려가 있습니다.

11

⚠ CAUTION

◆Always use genuine, exclusive PJ-2646NXE ink and jet wash.

◆Always use exclusive PJ-2646NXE ink tanks, jet wash tanks and waste liquid tanks.

◆If the user changes and uses the above, there is a risk of unpredictable problems such as ink blockage and deterioration of weatherability. Mutoh gives no warranty with respect to such problems.

12

⚠ 주 의

◆반드시, PJ-2646NXE전용 순정잉크, Jet Wash를 사용해 주세요.

◆반드시, PJ-2646NXE전용 잉크통, Jet Wash통, 폐액통을 사용해 주세요.

◆위와 같은 내용을 고객이 변경 사용하였을 경우, 잉크에 의한 헤드막힘 현상, 잉크 내후성의 약화등과 같은 예측할 수 없는 문제가 발생할 우려가 있습니다. 당사에서는 이러한 문제발생에 대해서 일체 책임을 지지 않습니다.

13

⚠ CAUTION

◆ When opening or closing the front cover, be careful not to let your fingers get caught.

※Other wise you may be injured.

14

⚠ Caution Vorsicht Attention

◆To avoid injury, do not touch the edge of the steel belt.

◆Um Verletzungen zu vermeiden, bitte den Stahl-Antriebsriemen nicht berühren.

◆Pour éviter des blessures, ne pas toucher la courroie de transmission en acier.

15

⚠ CAUTION

◆ Do not touch the rail adjuster.

※It may degrade the accuracy and result in poor image quality

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1.6 OPERATION LABELS

This Item describes the operation labels including their types and attaching positions.
The operation labels are attached on the product to provide the brief instructions for the particularly important operations. Learn the instructions and the attaching positions before operation.

1.6.1 Handling notices

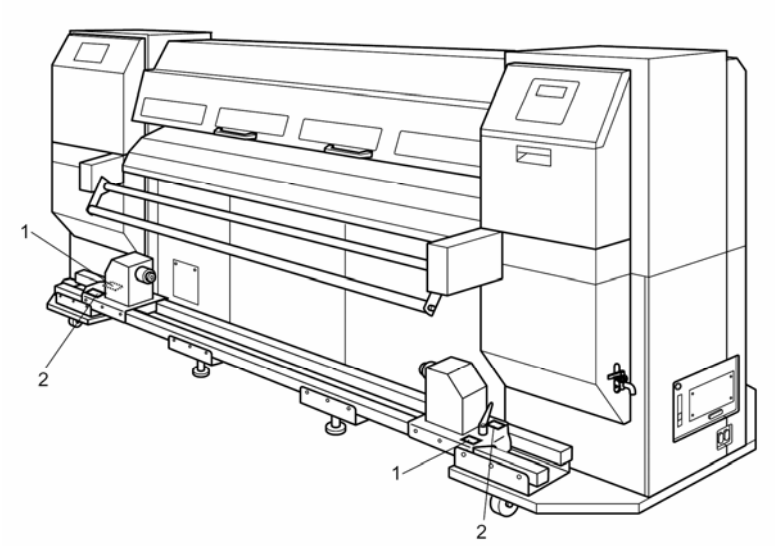
Be sure to observe the following notices.

⚠ Notes ⚠

- Ensure that all of the operation labels are clear enough for reading. If any part such as character or illustration is not clear, clean off dirt from the label.
- To clean off dirt from the operation labels, use clothes, water, or neutral detergent. Do not use organic solvent or gasoline.
- If the operation labels are damaged, lost, or unreadable for other reasons, replace them with new ones.
- For replacement, contact to the service centre (Refer to: "Product information service").

1.6.2 Label types and attaching positions

Front



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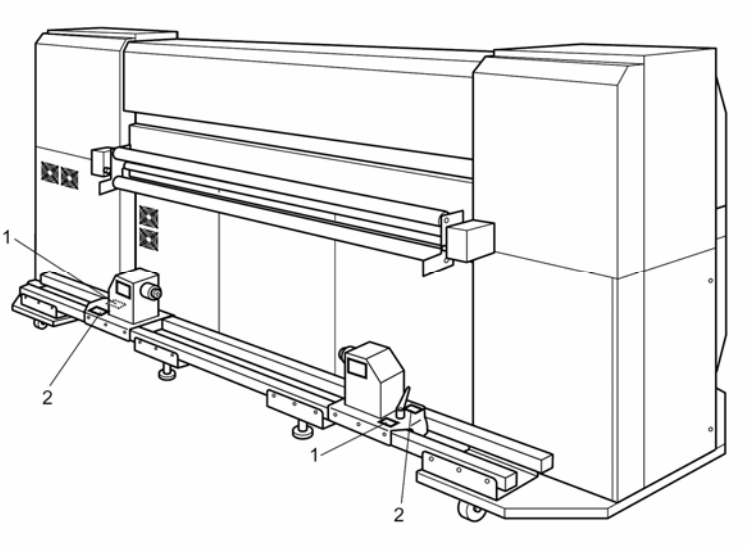
Back



No.	Operation label type
1	LOCK
2	UNLOCK

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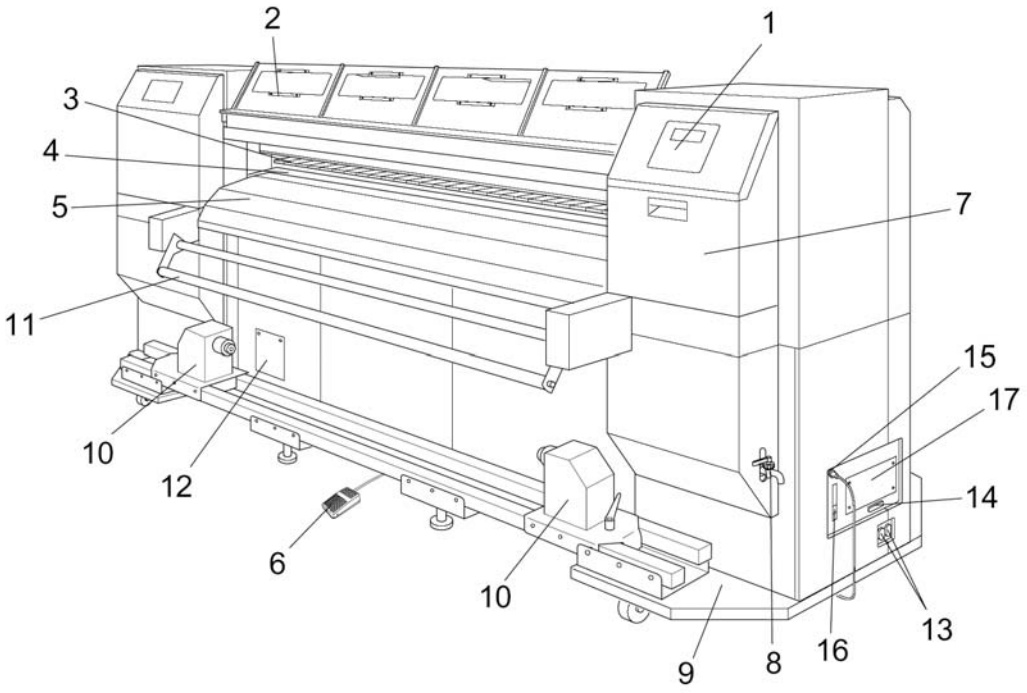
2 PRODUCT OVERVIEW

2.1 PARTS NAME AND FUNCTIONS

2.1.1 Front section



No.	Name	Function
1	Operation panel	This panel is used to set operational conditions, the status of the printer, and other functions. (Section : Operation panel)
2	Front cover	This cover keeps the operator safe from the drive parts of the printer while it is operating. Open and/or close the cover only when performing the following operations. • Media setting and replacement • Cleaning inside the printer • Media jamming
3	Pressurizing roller	Set inside the front cover. This roller is used to press the media from above and keep it flat when printing.
4	Platen	Set inside the front cover. There is an ink drying device built in. On the surface, there is a cutter groove for paper cutting.
5	Media guide	This is used to feed the media smoothly when setting the media and when printing. There is an ink drying device built in.
6	Foot switch	This switch is used to raise and lower the pressurizing roller.
7	Maintenance cover	This is a cover to protect the user from the internal components of the product. This is opened during the following conditions: • When Switching the unit ON or OFF • When cleaning the print head surface. • When cleaning the print head inside the cover. There is a waste fluid tray to collect waste fluid from the print head.
8	Waste fluid valve	Opened when discharging waste fluid from the waste fluid tank. This is normally closed.

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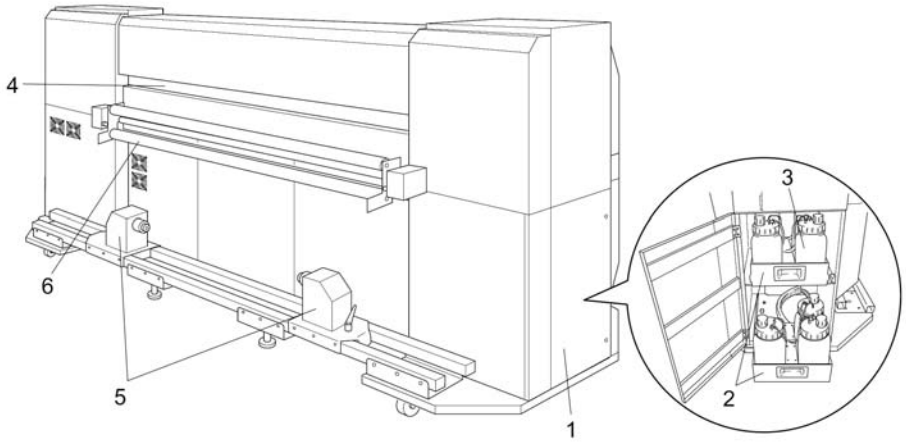
9	Stand	This stand is used to install the printer on a flat surface.
10	Winding unit	Winds and collects the printed media.
11	Cushioning roller	Use to guide the printed media to the winding unit.
12	3-way cock cover	Cover to protect operators from the internal mechanism of the product. Opens when the print head is cleaned. Normally this cover should be closed.
13	AC inlet	Insert the power cable plug.
14	Interface connector	Connector to connect Centronics Interface.
15	Foot switch connector	Connector to set foot switch cable.
16	Network internet face connector	Connector to connect Ethernet cable.
17	Hard disk slot	For attaching the optional hard disk. When the hard disk is not used, close the cover.

2.1.2 Rear section



No.	Name	Function
1	Ink bottle cover	Cover to protect operators from the internal mechanism of the product. Opens/closes when the ink and jet wash liquid is filled in.
2	Tank tray	Used to hold the main tank to the product.
3	Main tank	A tank for ink and jet wash liquid. The following number of tanks should be set to the tank tray. PJ-2646NX: 7 tanks
4	Media feed slot	This is the media feed slot for placing the media during the media setting procedure.
5	Feed unit	This is the device which sets the media, and feeds it to the printing start position.
6	Tension roller	Set the printing intervals when perform printing by media feed compensation. When the tension roller is lifted up, the feeding device feeds the media automatically.

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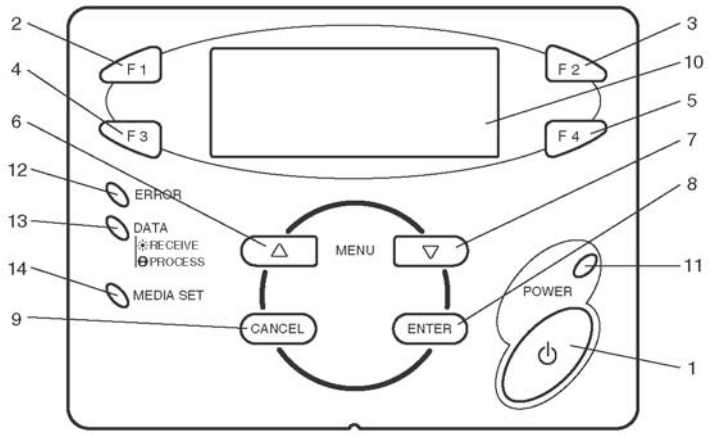
2.1.3 Operation panel

The operation panel is used to set operational conditions, display the status of the printer, and set other functions.

⚠ Notes ⚠

- See the sections below for using the operation panel.
  - When setup menus using the operation panel: “Menu setup on the operation panel”
  - When setting functions using the operation panel: “Operating from the operation panel”



2.1.3.1 Operation Keys

⚠ Notes ⚠

- Some keys have multiple functions and names depending on the printer status (normal or setup menu display). Refer to: "Printer status" for more details.

No.	Name	Normal	setup menu display
1	[POWER] key	Turns the printer ON and OFF.	Turns the printer ON and OFF.
2	[F1] key	Executes the function assigned to F1.	Executes the function assigned to F1.
3	[F2] key	Executes the function assigned to F2.	Executes the function assigned to F2.
4	[F3] key	Executes the function assigned to F3.	Executes the function assigned to F3.
5	[F4] key	Executes the function assigned to F4.	Executes the function assigned to F4.
6	[MENU ▲] key	Changes the LCD monitor display to setup menu status.	Changes the menu in reverse order.
7	[MENU ▼] key	Changes the LCD monitor display to setup menu status.	Changes the menu in forward order.
8	[ENTER] key	Changes the LCD monitor display to print mode display.	Determines the new parameter value and changes the LCD monitor display to the next menu.
9	[CANCEL] key	–	Cancels the new parameter value and returns to the previous hierarchy menu.

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2.1.3.2 LCD monitor and status lamp

No.	Name	Colour	Status	Function
10	LCD monitor	–	–	This monitor displays the operation status and error messages of the printer.
11	POWER lamp	Green	ON	The printer is ON.
			OFF	The printer is OFF.
12	ERROR lamp	Red	Flashing	An error has occurred. The contents will be displayed on the LCD monitor.
			OFF	Either there is no error in the printer or the power is OFF.
13	DATA lamp	Orange	ON	The printer is receiving print data.
			Flashing	The printer is analyzing received data.
			OFF	The printer is waiting to receive print data.
14	MEDIA SET lamp	Orange	ON	• The pressurizing roller is in the release position. • Media is not set.
			OFF	• The pressurizing roller is in the secured position. • The media is set.
15	ROLL lamp	–	–	Disuse
16	SHEET lamp	–	–	Disuse

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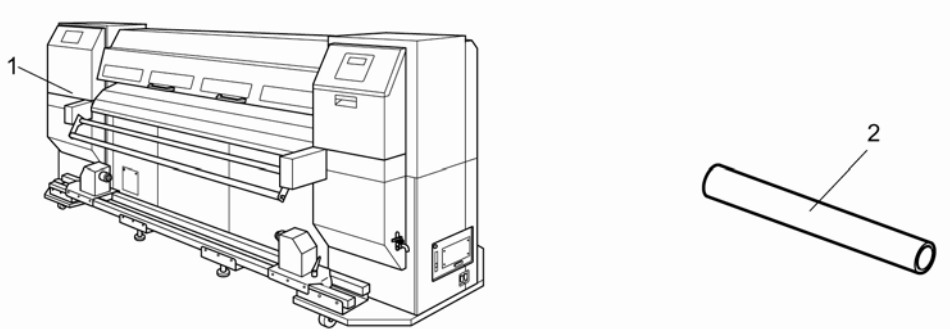
2.2 IN-THE-BOX CONTENTS

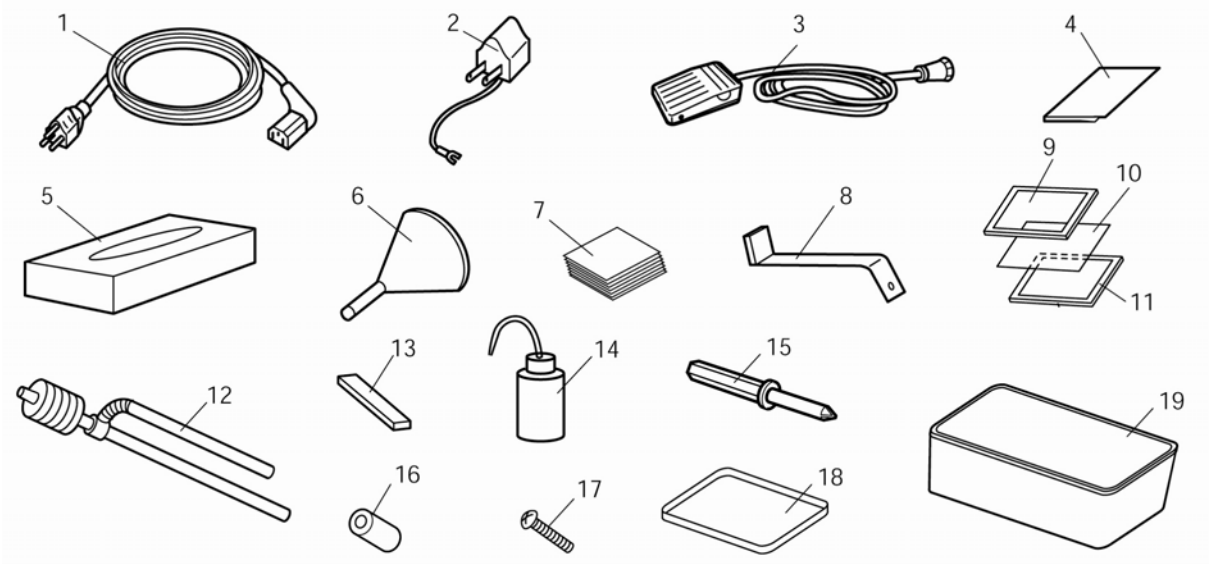
After unpacking the packaging box, inspect to make sure that the unit is not damaged, and that all necessary parts are present.

2.2.1 Items in the printer box



No.	Name	Qty	No.	Name	Qty
1	Main unit, stand, winding unit	1 set	2	Media tube (for winding unit)	1

2.2.2 Items in the accessory box



No.	Name	Qty	No.	Name	Qty
1	Power cable	4	12	Hand pump	1
2			13	Cap Sponge	6
3	Foot switch	1	14	Wash bottle	1
4	Media holder plate	2	15	Screwdriver	1
5	Gloves	1 box	16	Plastic spacer	2
6	Funnel	1	17	Screw（for Plastic spacer）	2
7	Polyknit wiper	1 box	18	Tray	1
8	Print head wiper	1	19	Accessories box	1
9	Magnet sheet (white)	1			
10	Panel cover	10			
11	Magnet sheet (black)	1			

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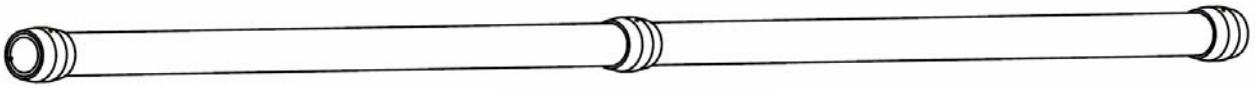
2.2.3 Starterkit

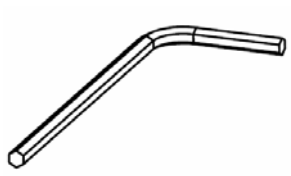
No.	Name	Qty
1	ROHS HDD 7445 – 40 Gbyte	1
2	Spout 5l	2
3	CD Users Guide	1
4	CD getting started	1
5	User's Guide Osprey	1
6	Dome Label Osprey	1
7	Box 440 ml cassettes	8
8	Operation manual (EU version)	1
9	Installation manual (EU version)	1

2.2.4 Core Brace Set

No°	Item	#
1	Media Core Brace (Shaft + 3 spacers + screws)	2
2	Hexagon wrench 2 mm to tighten the spacers	1
3	Spacer media shaft diameter 74	6
4	Hex set screw M4x4	6
5	Instruction sheet	1



1



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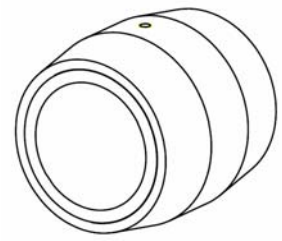

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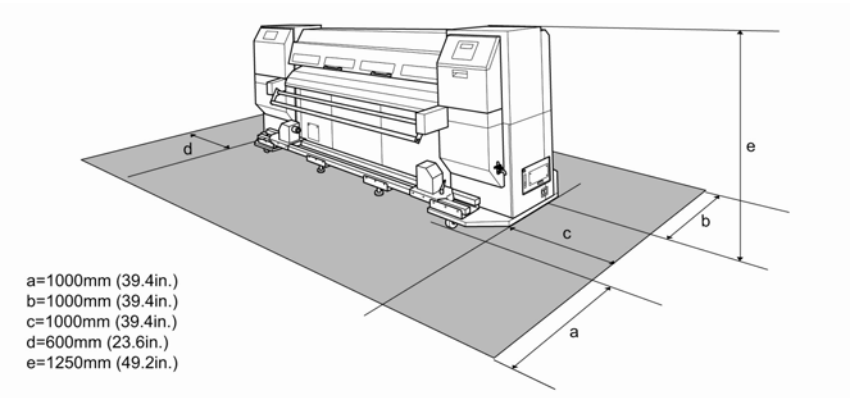
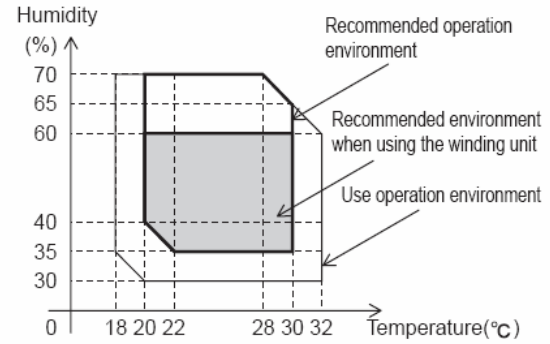
2.3 INSTALLATION REQUIREMENTS

<table>
<tr><td colspan="2">Area</td><td>12.6m^2 (146ft^2) or larger. Frontage of 4.7m (15.7ft) or greater.
 
</td></tr>
<tr><td colspan="2">Floor loading capability</td><td>2940Pa (300kg/m^2) or over</td></tr>
<tr><td rowspan="3">Electrical</td><td>Voltage</td><td>AC100V – 120V / AC220V – 240V ±10%</td></tr>
<tr><td>Frequency</td><td>50/60Hz±1Hz</td></tr>
<tr><td>Capacity</td><td>AC100V – 120V: 15A or more
AC220V – 240V: 7.5A or more</td></tr>
<tr><td rowspan="2">Environmental</td><td>Operational conditions</td><td> 
</td></tr>
<tr><td>Storage environment</td><td>Temperature: –10°C (14F) to 60°C (140F)
Humidity: 20% to 80% without condensation</td></tr>
</table>

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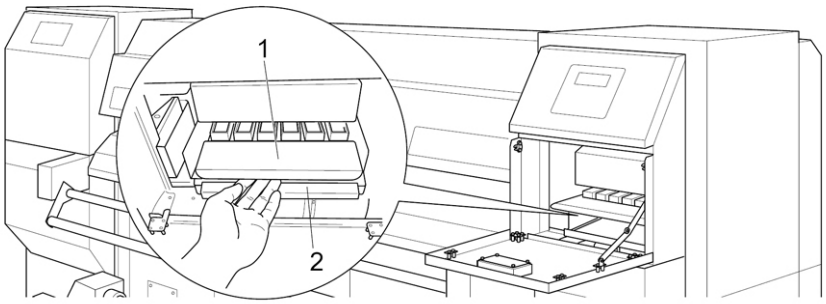
3 BASICS

3.1 SWITCHING THE POWER ON/OFF

3.1.1 Switching the power ON

Step 1 : Open the maintenance cover.

Step 2 : Holding the front of print head cap put the purge plate down.



No.	Name
1	Print head cap
2	purge plate

Step 3 : Tilt the print head cap to eliminate the pooled liquid including jet-wash fluid.

Step 4 : Remove the print head cap.

Step 5 : Rise to set the purge plate.

⚠ Notes ⚠

- The purge plate must be placed on the purge stand whenever the power is ON, except in the case when head cleaning is performed.
- When performing head cleaning (Refer to: “Head cleaning”)
- If waste fluid comes into contact with the inside of the product, the product may malfunction.

Step 6 : Close the maintenance cover.

- Close firmly until the covers are fixed into place.

Step 7 : Press the [POWER] key of the control panel, to switch the unit ON

- The POWER lamp of the control panel will light (green).

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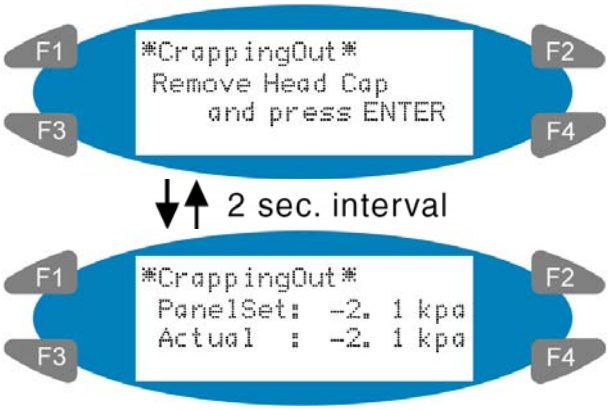
Step 8 : The unit will initial start-up operations.

- The following message is displayed on the operation panel.

⚠ Notes ⚠

- In case that the parts' life becomes end, when turning the power of the unit ON, the following messages are displayed alternately on the operation panel every 2 seconds.
- (Refer to: "Replacement of the print head and CR motor")



⚠ Notes ⚠

- Details of the value displayed every two seconds are as follows.
- PanelSet: Display a set value of present negative pressure.
- Refer to: "Negative pressure pump menu"
- Actual: Display the measurement value of present negative pressure.

Step 9 : After confirming the removal of the print head cap, press the [ENTER] key on the operation panel.

⚠ Notes ⚠

- The initialization of the hard disk which is installed in the unit is performed for about 10 seconds after 3 seconds from the launch of the initial start-up operation.
- During this operation,
- The operation panel will not work even if pushing [ENTER] key.
- The display will not change even if the parts' life cycle is displayed.

Step 10 : After finishing initial start-up operations, the unit will enter the normal operating condition.

⚠ Notes ⚠

- If there are any problems during the initial start-up operation, the unit will display a message on the control panel, and the operation may stop.
- If the operation stops, refer to "6 Troubleshooting", and take the appropriate measures.

Step 11 : Using the wash bottle, soak the sponges and poly-nit wipers of the print head cap enough with the jet-wash fluid.

Step 12 : Keep the print head cap in the accessories box.

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3.1.2 Switching the power OFF

Power OFF the unit according to the following procedure:

Step 1 : Follow “Testprinting”, and perform nozzle check printing.

Step 2 : Verify if there is any clogging of nozzles, missing dots, or faint printing.

⚠ Notes ⚠

- If printing, quality declines, or if missing dots are evident after the nozzle check, the print heads need to be cleaned.
- Refer to: “Head cleaning" to perform head cleaning.
- If switching the power OFF without head cleaning, the clogged nozzle may not restore.

Step 3 : Verify the following regarding the operational condition of the product.

- There is no printing operation being performed.
- The control panel is in a normal status.

Step 4 : Push the [POWER] key of the control panel, to switch the unit OFF.

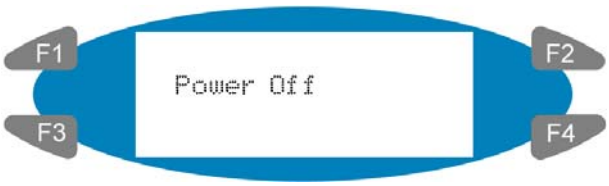
⚠ Notes ⚠

- The power is ON if the control panel displays the following conditions:
- The [POWER] key is in the pushed in condition
- The POWER lamp is lit (green).
- Press the [POWER] key again to switch the power OFF.

Step 5 : Following message is displayed on the operation panel for 3 seconds.

⚠ Notes ⚠

- If pushing the [POWER] key on the operation panel by mistake, push [POWER] key again while the following message is displayed.



Step 6 : The product will perform the power OFF operation.

- The following message is displayed on the operation panel.

Step 7 : Open the maintenance cover.

Step 8 : Put the purge plate down.

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Step 9 : Cut a poly-knit wiper into three equal pieces, and place them on the cap sponges.

⚠ Notes ⚠

- Place a piece of poly-knit wiper on the cap sponge as in the figure below so that the piece fits the nozzle surface of the head.
- Use the jet-wash fluid to wash the poly-nit wipers.
- Replace the poly-nit wiper in the following cases:
- The poly-nit wiper has dried.
- Stuff such as ink clotting adhered to the poly-nit wiper.
- The poly-knit wiper is dirty with ink, etc.
- The poly-knit wiper has been used for a week. (Replace it once a week.)
- If the cap sponge is too dirty or dried, replace it with a new one included in the product.
- Be sure to reattach the print head cap after the head cleaning.

Step 10 : Using the wash bottle, soak the cap sponges and the poly-nit wipers enough with the jet-wash fluid.

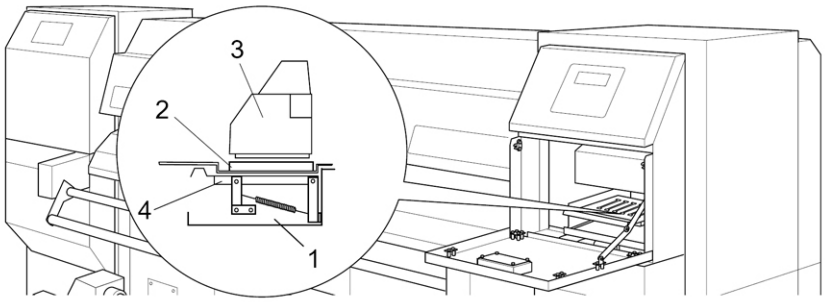
⚠ Notes ⚠

- Clean the following parts periodically.
  - o The resin part of print head cap
  - o The sides of head (i.e. the parts to which ink clotting, etc., can easily adhere)
  - o The cap sponges

Step 11 : Tilt the print head cap, and insert it to set on the waste fluid box level.

⚠ Notes ⚠

- When attaching the print head cap, prevent it from touching the nozzle surface of the head.



No.	Name
1	Waste fluid box
2	Print head cap
3	Print head
4	Purge plate

Step 12 : Adjust to fit the print head cap and the print head to each other. Raise the print head cap and set the purge plate.

Step 13 : Close the maintenance cover.

- Ensure that the cover is firmly fixed.

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Step 14 : Press the [ENTER] key on the operation panel.

- The following message is displayed on the operation panel.

Step 15 : When the media is set perform following operation

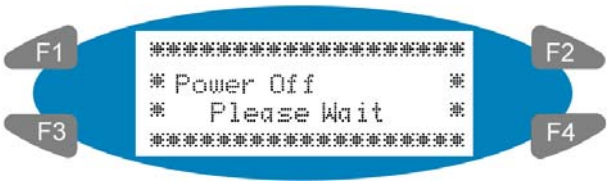
- Do not raise the pressurizing lever, press the [ENTER] key on the operation panel.
- When raising the pressurizing lever, press the [CANCEL] key on the operation panel or wait 10 seconds.

⚠ Notes ⚠

- Ensure to raise the pressurizing lever when the product is not used for a long time. Not doing so may damage the pressurizing roller.
- When the pressurizing lever is up or no media is set, the system shift to Step 16 without displaying the lever select menu.

Step 16 : The product will finish the power OFF operation.

- The following message is displayed on the operation panel.



- If the [ENTER* key is pressed in Step 14, the product will send the media for 0.8m (2.6ft.).
- The pressurizing roller raise.
- The POWER lamp of the operation panel will switch OFF.
- The printer will automatically power OFF.

⚠ Notes ⚠

- If there are any problems during the power OFF operation, the unit will display a message on the operation panel, and the operation may stop. If the operation stops, refer to "Troubleshooting", and take the appropriate measures

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3.2 MEDIA HANDLING

The following describes the procedures for installing and setting roll media, setting types of media, and using the winding unit.
The procedures required for media installation is shown in the following flow diagram.
Refer to the following items according to the model to be used before performing the operations.

1. Install the roll media to the scroller.
(Refer to: “Placement of the roll media”)

↓

2. Set the roll media to the product.
(Refer to: “Loading roll media”)

↓

3. When the winding unit is used, set the roll medial to the winding unit.
(Refer to: “Setting winding unit”)

↓

4. Set the media type.
(Refer to: “Setting media type”)

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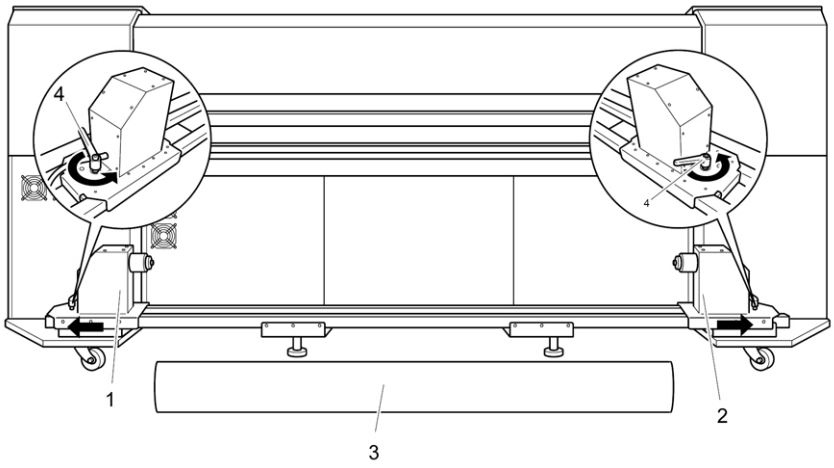
3.2.1 Placement of the roll media

⚠ Notes ⚠

- The following roll media can be attached to the scroller supplied with this unit.
  - Media tube: diameter 3 inches, length 2640mm (103.9in.) or less
  - Width: 2600mm (102.4in.) or less
  - External diameter: 250mm (9.8in.) or less
  - Weight: 140kg(309Lbs.) or less
- Problems that occur due to usage of media such as printable side with inside, are not guaranteed.

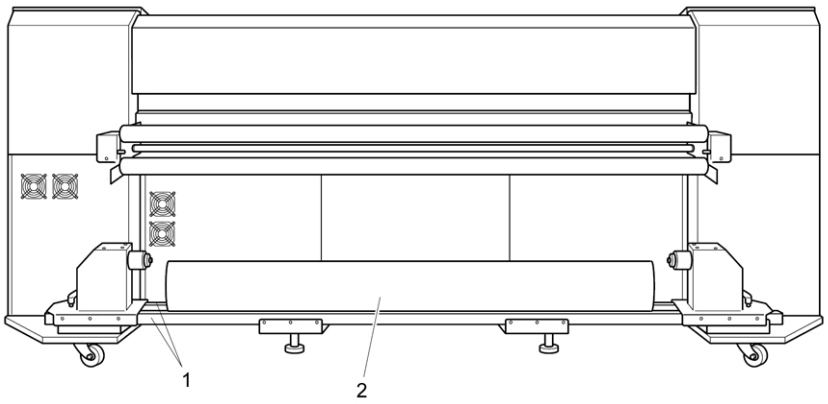
To attach roll media, follow the steps below.

Step 1 : Release the feed unit fixing levers on the right and left sides of rear side. Set the distance between the feed units wider than the roll media width.



No.	Name
1	Feed unit (Left)
2	Feed unit (Right)
3	Roll media
4	Fixing lever

Step 2 : Set the roll media on the feed unit rails



No.	Name
1	Feed unit rail
2	Roll media

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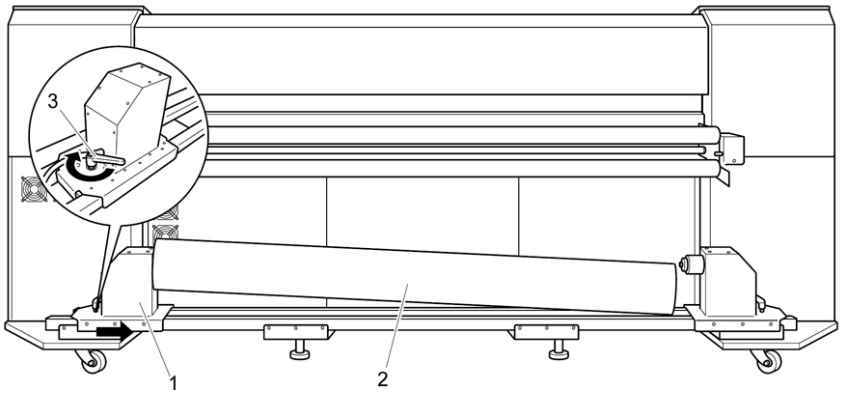
Step 3 : Raise the left side of roll media seeing from the rear side, set the side to the feed unit, then fix it with the fixing lever.



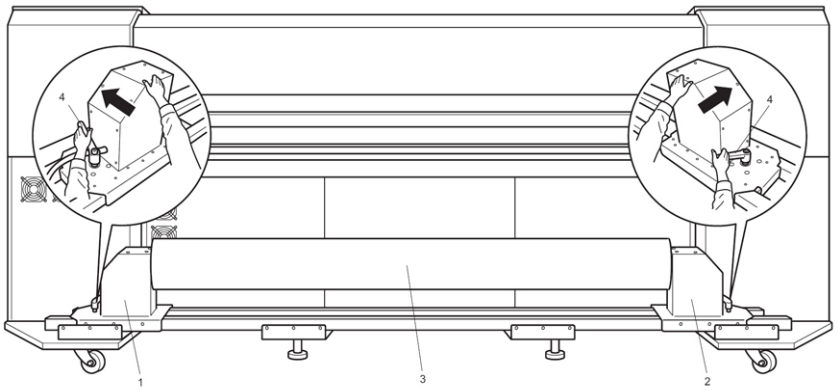
No.	Name
1	Feed unit (Left)
2	Roll media
3	Fixing lever

Step 4 : Set the other side of roll media in the same way as step 3.

Step 5 : Release the right and left fixing levers of the feed units, move the roll media to the centre of the unit, then fix it with the fixing levers.

⚠ Notes ⚠

- When a feed unit is fixed, it fixes pressing a feed unit against a product side.



No.	Name
1	Feed unit (Left)
2	Feed unit (Right)
3	Roll media
4	Fixing lever

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3.2.2 Using the media core braces.

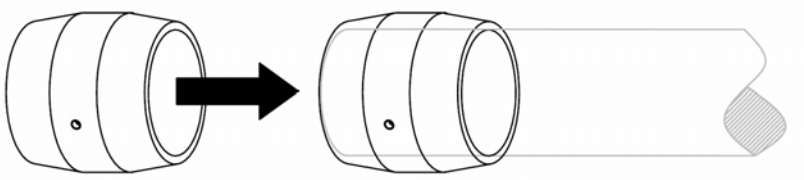
Media core braces are developed to prevent the media cores to bend while printing. This could cause bad print quality or paper slant.

From the moment the core is larger than 2050 mm, we recommend installing the brace. *Do NOT install the brace when the core is smaller than 2050 mm.*

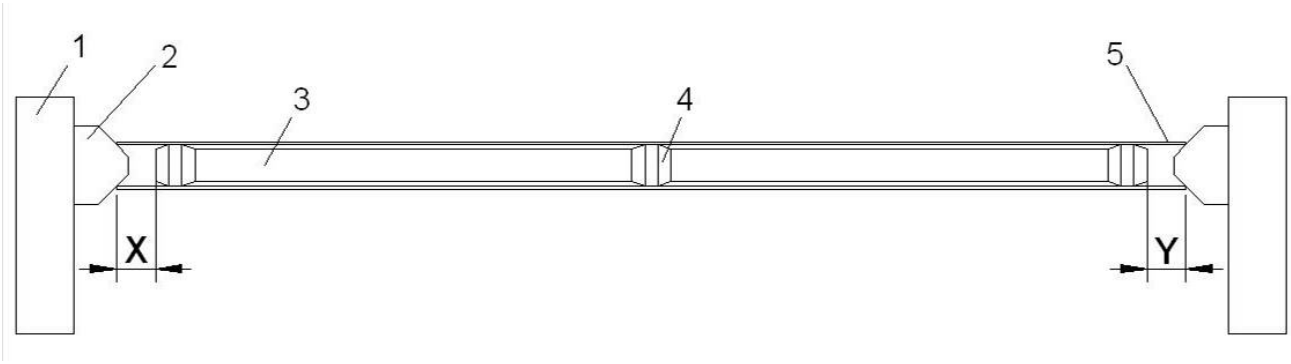
In the packaging box of the machine you will find two cores and two media core braces. There are already 3 spacers installed per brace with an outer diameter of 74 mm. In box 3/4 there are 6 spacers of 76 mm.

Please follow the instructions below to install and use the braces correctly.

Step 1 : First check which spacer fits the best in the used core. If this one is not installed yet, remove the installed one with a Hexagon Wrench 2 mm (in box 2/4) and install the correct one as shown below. There is already a hole in the core in which the locking screw fits.



Step 2 : Push the brace in the core. (Picture 1).
Be sure that the distance X is the same as Y (picture 2) and at least 75 mm.



No	Description
1	Roll Unit
2	Positioning Cone
3	Media Core Brace
4	Spacer
5	Core of minimum 2050 mm

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3.2.3 Loading roll media

The procedure for loading roll media is explained below.

To load roll media, follow the steps below.

Step 1 : Power ON the unit.

Step 2 : The printer starts the initializing operation.

- The following message is displayed on the operation panel.

⚠ Notes ⚠

- In the following conditions, follow "Menu setup on the operation panel" and set individual settings.
- When using the winding unit: Set the winding unit setting to "ON"

(Refer to: “Winding unit menu”)

- When not performing media detection during media initialization: Set media detection to "No"

(Refer to: Item “Media detection menu”)

- When using the roll media such as the printable side is outside: Set the feed unit item to "Outside"

(Refer to: “Feed unit menu”)

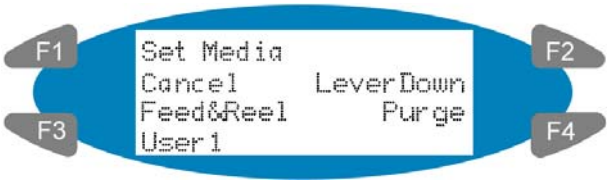
- When using the roll media such as the printable side is inside: Set the feed unit item to "Inside".

(Refer to: “Feed unit menu”)

Step 3 : Verify that the MEDIA SET lamp of the control panel is unlit.

Step 4 : Press [F2] key to raise the pressurizing roller.

- The MEDIA SET lamp will light (orange).
- The following message is displayed on the operation panel.



⚠ Notes ⚠

- When raising or lowering the pressurizing roller, you can use the foot switch instead of the control panel.

Step 5 : Open the front cover.

Step 6 : Install a media core brace in case you use media wider than 2 metre. This to prevent the media will bend.

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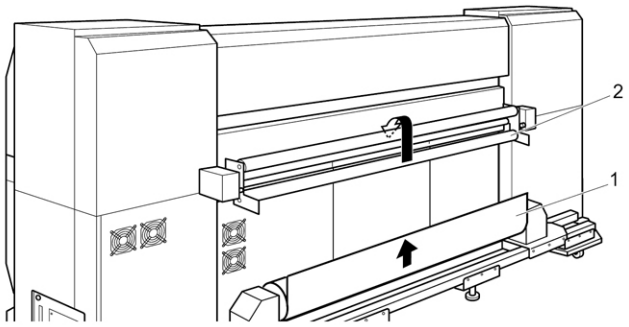
Step 7 : Lift up the tension roller at the backside of the product with your hand.

- The roll media is fed.



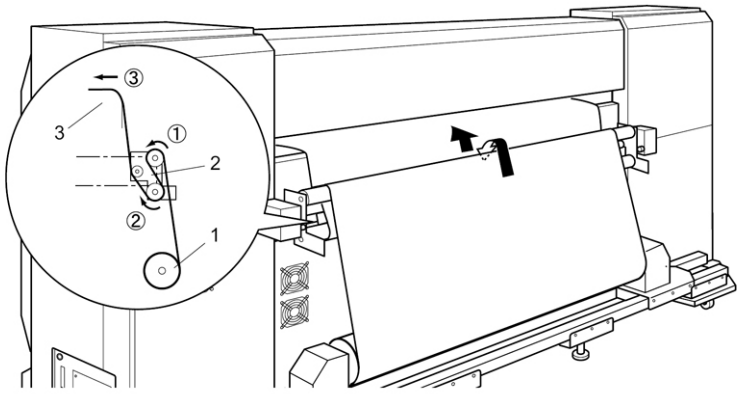
No.	Name
1	Roll media
2	Tension roller

Step 8 : After passing the roll media through the tension roller, place in the media feed slot from the top of the damper.

⚠ Notes ⚠

- If there is a part not wounded tightly on the end of the roll media, wind it tightly again, then load it.

a. When using the roll media such as the printable side is outside.



No.	Name
1	Roll media
2	Tension roller
3	Media feed slot

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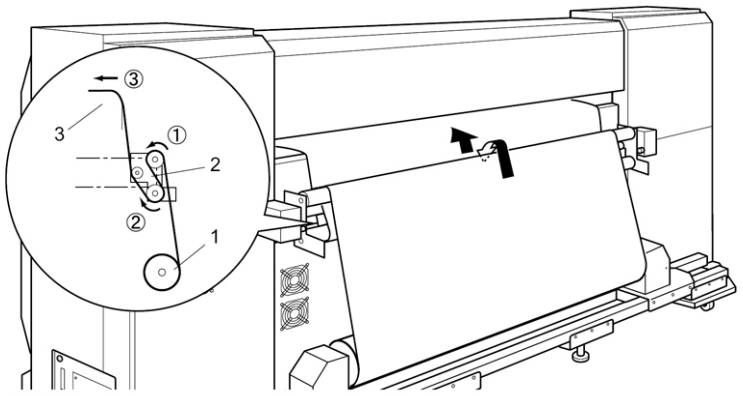
b. When using the roll media such as the printable side is inside.

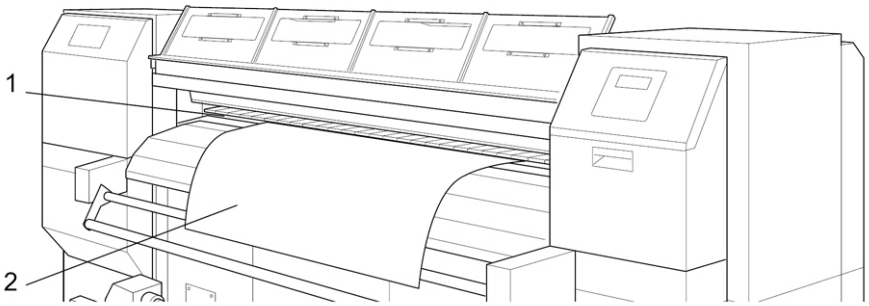
⚠ Notes ⚠

- Problems that occur due to usage of media such as printable side with inside, are not guaranteed.



No.	Name
1	Roll media
2	Tension roller
3	Media feed slot

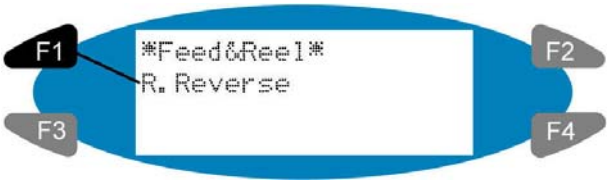
Step 9 : Put the roll media out about 1m from the front media feed slot, which is located inside of the front cover.



No.	Name
1	Media feed slot
2	Roll media

Step 10 : Press the [F3] key of the control panel.

- The following message is displayed on the operation panel.



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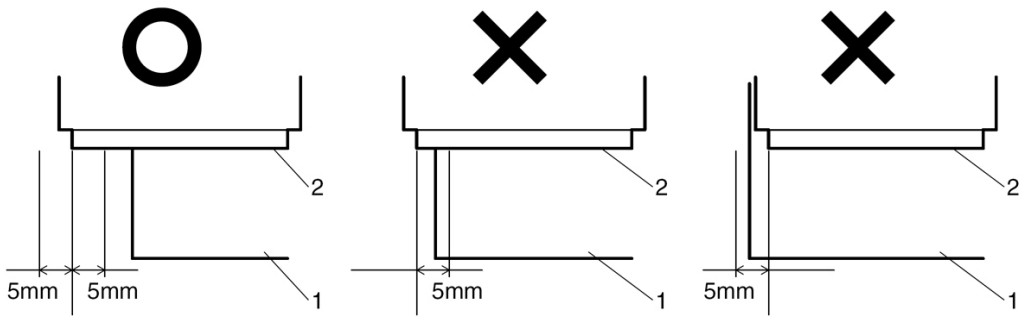
Step 11 : Rewind the roll media a little by pressing the [F1] key on the operation panel while holding the edge of the media, and eliminate any loose or slant.

⚠ Notes ⚠

- If you set the roll media free while rewinding, the roll media will fall out from the media feed slot to the rear side of the product.
- Make sure not to set the right edge of the media over the media setting position. If doing so, it may affect the printing quality.

⚠ Notes ⚠

- When setting the roll media, set the both side of the media at least 5mm apart from the edge of the pressurizing roller. Slippage or creases may occur during printing.



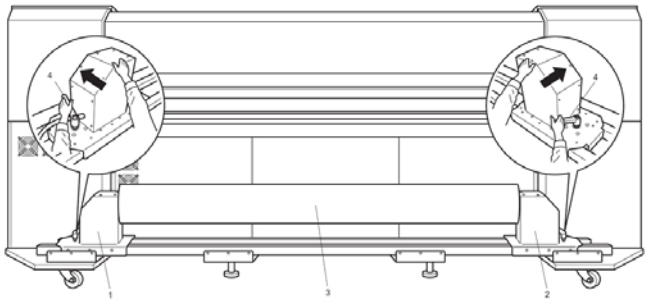
No.	Name
1	Roll media
2	Pressurizing roller

Step 12 : If the edge of the roll media is set apart 5mm or less from the edge of the pressurizing roller, adjust the position of the roll media according to the following procedure:

- Release the right and left fixing levers of the feed units, and move the roll media to the left or right.
- After moving the roll media, fix it again with the fixing levers.

⚠ Notes ⚠

- When a feed unit is fixed, it fixes pressing a feed unit against a product side.



No.	Name
1	Feed unit (Left)
2	Feed unit (Right)
3	Roll media
4	Fixing lever

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Step 13 : Press the [CANCEL] key on the operation panel.

- The operation panel returns to the normal condition.

⚠ Notes ⚠

- When using a winding unit, follow "Setting winding unit" and set the roll media to the winding unit.

Step 14 : Press the [F2] key on the control panel to lower the pressurizing roller.

- The MEDIA SET lamp goes OFF.

Step 15 : Close the front cover.

⚠ Notes ⚠

- If you load a new tube of roll media, the media end may not be straight. If so, cut the end of the roll media.
  Refer to: "Roll media cutting procedure" to cut the roll media.

Step 16 : The media initial menu is displayed on the control panel.

⚠ Notes ⚠

- When changing the media type, follow “Setting media type" to set the media type.

3.2.4 Setting winding unit

When using the winding unit, set up the winding unit according to the following procedure.

⚠ Notes ⚠

- When using the winding unit, always load the media before printing.

Step 1 : Attach the media tube to the scroller for the winding unit. (Refer to: Placement of the roll media)

⚠ Notes ⚠

- When using the winding unit, always use the media tube attached to the product.

⚠ Notes ⚠

- When a winding unit is fixed, it fixes pressing a winding unit against a product side.
- Refer to: Placement of the roll media “step 5”

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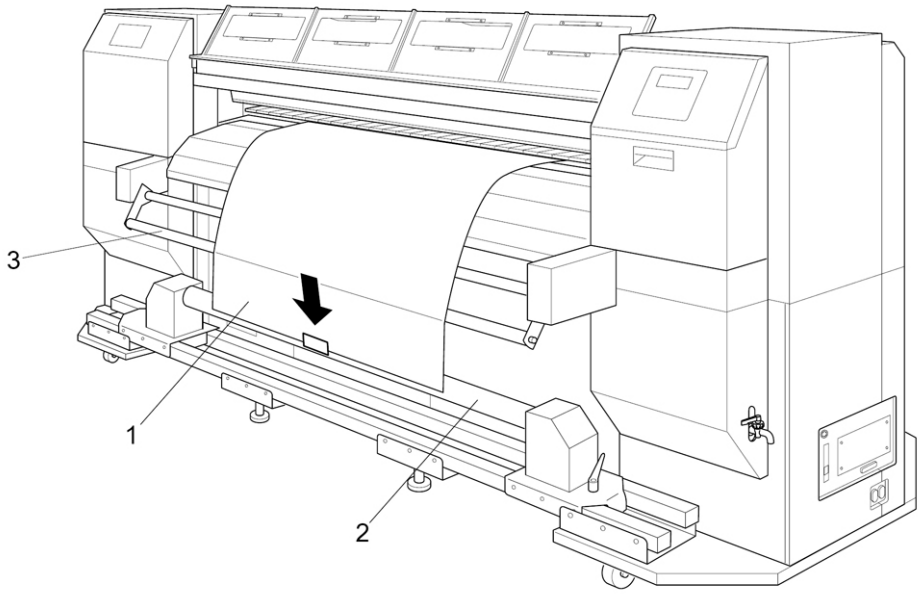
Step 2 : Pull out the roll media from the feed slot, and fix into place with tape so that the leading edge is parallel with the media tube.

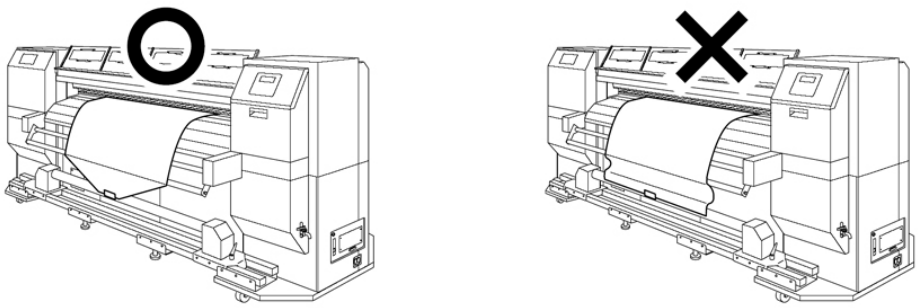


No.	Name
1	Roll media
2	Media tube
3	Cushioning roller

⚠ Notes ⚠

- When setting the roll media to the winding unit,
- Check the front and back of the product and make sure the media is free of wrinkles or slack.
- Install the media on the media tube so that the printing side faces outside. The media cannot be wound if the printable side faces inside.
- Cutting the both sides of the media allows you to wind well the roll media as shown in the next figure.

a. Front section



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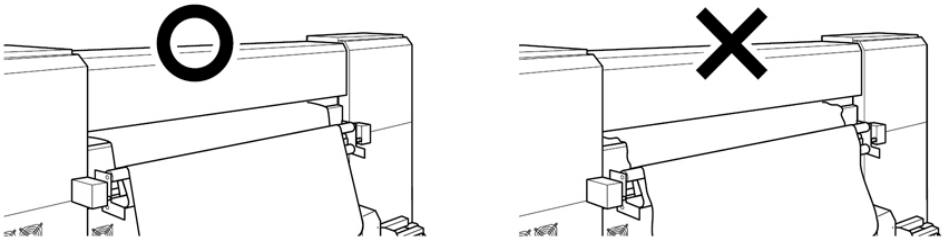
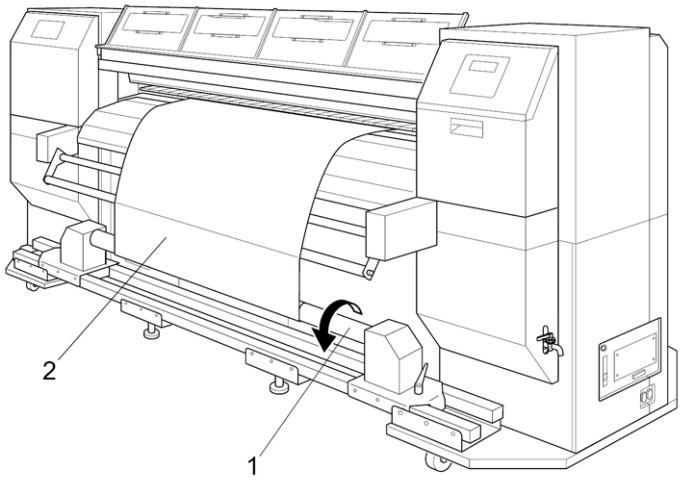
b. Rear section



Step 3 : Press the [F3] key on the operation panel.

- The following message appears.

Step 4 : Press the [F1] key, and wind the roll media to the media tube of the winding unit by approximately one and half turn.



No.	Name
1	Media tube of winding unit
2	Roll media

Step 5 : Set the roll media according to the following procedures. (Refer to “Loading roll media”)

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3.2.5 Setting media type

Step 1 : Switch ON the power of the unit, and set the media.

⚠ Notes ⚠

- Refer to the following sections to load media.
  "Loading roll media"

Step 2 : Press the keys below in the control panel to change the settings.

- When changing the type of media: [F1] key
- When changing the setting of the winding unit: [F2] key
- When going over from media loading: [F3] key
- When changing the setting of feed unit: [F4] key

Setup items	Key	Parameters	Descriptions
Media type	F1	User 1	Makes setting for media type used for test printing. For setup values of printing operation, sixteen settings of "User 1-16" can be set. Refer to: "Menu setup on the operation panel"
		User 2	
		User 3	
		User 4	
		User 5	
		User 6	
		User 7	
		User 8	
		User 9	
		User 10	
		User 11	
		User 12	
		User 13	
		User 14	
		User 15	
		User 16	
Take-up OUT/IN/OFF	F2	Take-up OUT	Sets the operation of the winding unit. • Take-up OUT: Set when taking up the printable side outward • Take-up IN: Set when taking up the printable side inward • Take-up OFF: Set when not using the winding unit
		Take-up IN	
		Take-up OFF	
Lever Up/Down	F3	Lever Up	Switches between up and down motion of the pressurizing lever. Use this when starting over from the media setup.
		Lever Down	
Send Out/In	F4	Send Out	Sets the operation of the feed unit. • Send Out: Set when using the roll media such as the printable side is outside. • Send In: Set when using the roll media such as the printable side is inside.
		Send In	

⚠ Notes ⚠

- Problems that occur due to usage of media such as printable side with inside are not guaranteed.

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Step 3 : Press the [ENTER] key of the control panel.

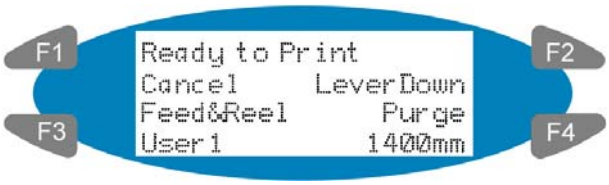
- The media type is set.
- The printer starts the media initialization.

⚠ Notes ⚠

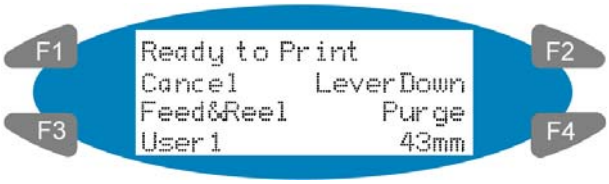
- In the media initial menu, if the following is performed, the unit will move on to the media initial operation without setting the media type.
- When the [CANCEL] key of the control panel is pressed.
- Leaving the printer for 10 seconds without doing anything

Step 4 : When the media initial operation finishes, the printer moves to normal status.

- The media width is displayed on the operation panel for 5 seconds.



- The setting media loading procedure is completed.



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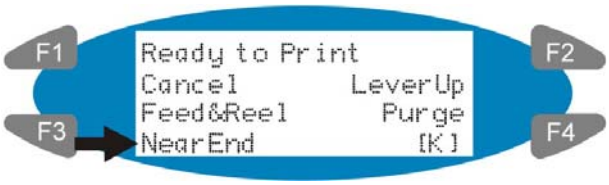
3.3 REFILLING THE INK AND JET WASH FLUID

Read the following information on when and how to refill the ink and the jet wash fluid.

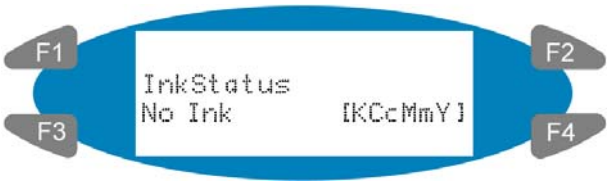
(1) Refilling period

Refill the ink in the following cases

a. When the amount left in the main tank becomes low
- Printing will continue to be performed.
- Before the ink runs out, prepare the ink for refilling.
- The following message is displayed on the operation panel.



b. When the ink inside the main tank is run out
- Printing operation stops.
- Refill with new ink immediately.
- The following message is displayed on the operation panel.



⚠ Notes ⚠

- When the ink runs out or is close to being empty, the colour of the ink that needs refilling will be indicated as follows:
  - K: Black
  - C: Cyan
  - c: Light Cyan
  - M: Magenta
  - m: Light Magenta
  - Y: Yellow
- After the message "Near End" has been displayed on the operation panel, about 6m2(66.7ft2) (When "Quality" in the setup menu is set to 360×720dpi) of printing is possible, until the ink runs out.
- Even when the "No Ink" is displayed at the control panel, there may be a small amount of ink left in the main tank.

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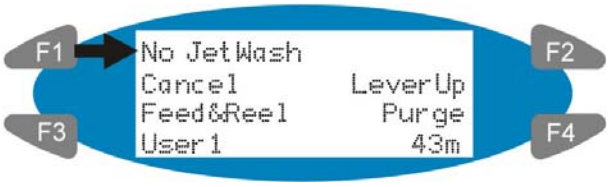
Refill the jet wash fluid when the following occurs.

a. When the jet wash fluid inside the main tank is run out
- Printing will continue to be performed.
- Refill the new jet wash fluid immediately.
- The following message is displayed on the operation panel.



(2) Types

⚠ Notes ⚠

- Use MUTOH recommended ink only.
  - The printer is designed for use with genuine ink cartridges. If you do not use genuine products,
  - Print outs may become faint and the printer will not be able to detect the end of ink.
  - Problems caused by using ink other than the recommended will void the warranty.
- Refer to the following for the types and details of ink and the ink jet wash fluid.
  See “Options/Supply list”

(3) Refilling procedure

Follow the steps in "Filling the ink - jet wash fluid" to refill the ink.

⚠ Notes ⚠

- If ink is refilled during printing, printing is resumed.

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3.4 DISPOSAL OF WASTE FLUIDS

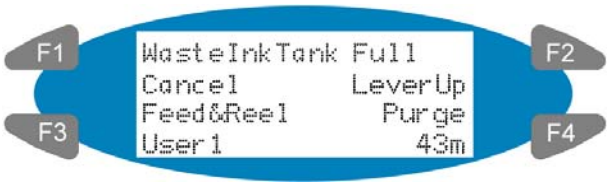
Be sure to read and understand the safety warnings before handling the printer.

(1) Disposal period

Dispose waste fluids during the following conditions:

a. After finishing printing operation

b. When the message "Waste Ink Tank Full" is displayed on the operation panel.

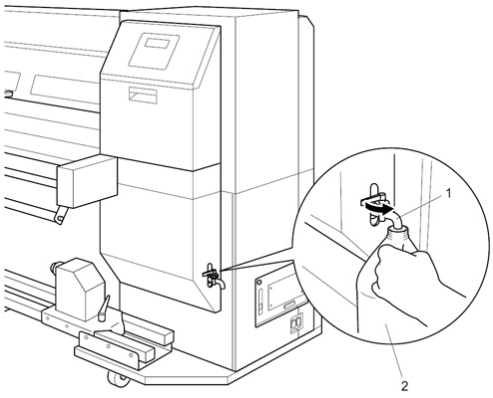


(2) Disposal method

Dispose the waste fluid according to the following procedure.

Step 1: Verify that the printer is switched OFF.

Step 2: Put an empty container such as a used supply ink bottle under the waste fluid valve.



No.	Name
1	Waste fluid valve
2	Empty container

Step 3: Open the waste fluid valve, and transfer the waste fluid to the container.

Step 4: Close the waste fluid valve securely.

Step 5: Dispose the waste fluid as an industrial waste product.

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3.5 TRANSFER AND TRANSPORTATION

3.5.1 *Transferring the printer*

(1) Before the transfer

Be sure to read and understand the safety warnings before handling the printer.

Step 1 : Make sure that the printer is switched OFF.

Step 2 : Dispose of the waste fluid.

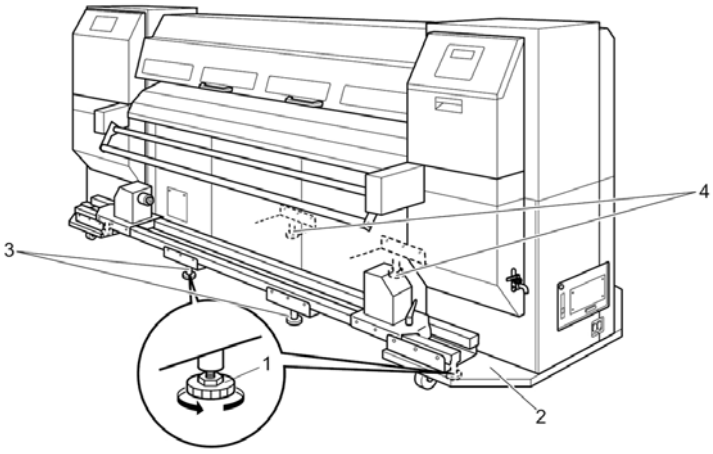
Step 3 : Disconnect the power cable and all other cables.

Step 4 : Turn the following adjusters to the directions shown in the diagram to loosen.
- Stand: 4
- Winding unit: 2
- Feed unit: 2

Step 5 : Transfer the printer.

⚠ Notes ⚠

- The casters attached to the stand have been designed for transferring the printer short distances on a surface in-house.



No.	Name
1	Adjuster
2	Stand
3	Winding unit
4	Feed unit

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(2) After the transfer

Step 1 : After moving to the installation location, fix the product to the location.

⚠ Notes ⚠

- For more information on where to place the printer, refer to "Installation Manual".

Step 2 : Connect the power cable and other cables.

⚠ Notes ⚠

- For connecting cables, refer to:
  “Connecting the power cable”
  “Connecting the printer to your PC”

Step 3 : Perform nozzle checking to check if the printer head has clogged.

⚠ Notes ⚠

- To perform the nozzle check, refer to "Nozzle Check".

Step 4 : Perform a fine adjustment of image quality.

⚠ Notes ⚠

- To perform an adjustment of image quality, refer to "Alignment".

3.5.2 Transporting the printer

When you transport the printer, the printer should be repacked using the original box and packing materials, to protect it from vibration or impact.

⚠ Notes ⚠

- When you transport the printer, contact your local MUTOH dealer.

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3.6 LONGSTORE

Be sure to read and understand the safety warnings before handling the printer.

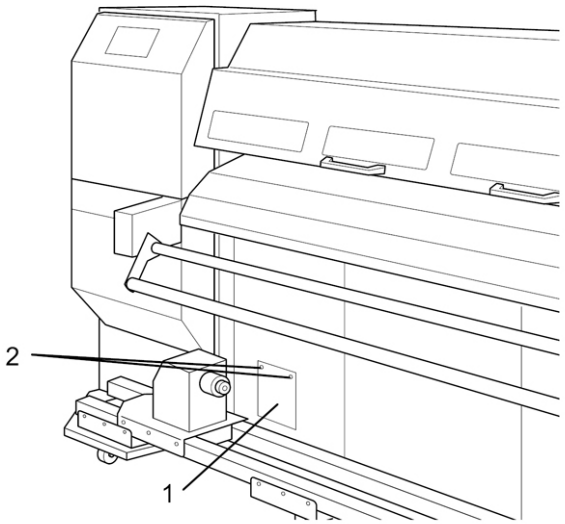
Cleaning Period

When not using the unit for over 1 week, perform cleaning for long term storage.

Operational procedure

Step 1 : Loosen the fixing screws for the 3-way valve cover.

Step 2 : Remove the 3-way valve cover.



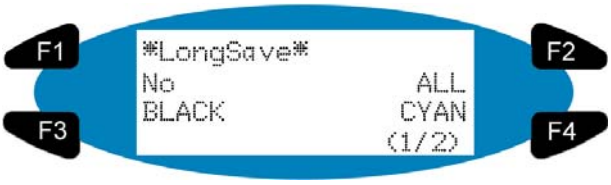
No.	Name
1	3-way valve cover
2	Screws to fix 3-way valve cover (2 pcs)

Step 3 : Switch the unit ON.

Step 4 : Follow the instructions in "Filling the ink - jet wash fluid" to refill the jet wash fluid.

Step 5 : Follow the instructions in "Disposal of waste fluids" to empty the waste fluid tank.

Step 6 : Follow the instructions in "Menu setup on the operation panel", and bring up the Long Save menu on the control panel.



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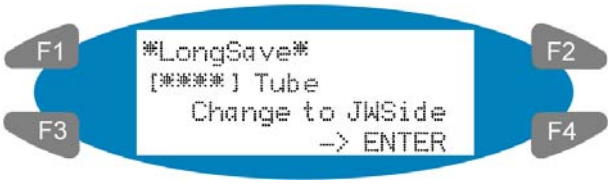
Step 7 : Press the [F1] key to [F4] keys to select the print head to perform the long-term storage cleaning process.

⚠ Notes ⚠

- In the Long Save menu, selecting "ALL" is recommended. By selecting "ALL", the long-term storage cleaning treatment is performed for all print heads one by one.
- When "NO" is selected in the Long Save menu, the menu returns to the lower hierarchy without performing the long term storage cleaning treatment.
- Refer to "Long-term storage cleaning menu" for more details.

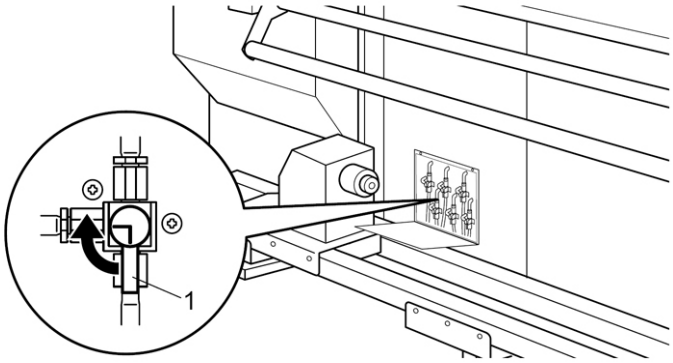
- The printer starts the long-term storage cleaning treatment.
- It takes about 25 minutes per colour of ink to operate the long-term storage cleaning treatment.
- The following message is displayed on the operation panel.



⚠ Notes ⚠

- In the [****] part of the message, the colour of the 3-way valve to be operated will be displayed.

Step 8 : Switch the 3-way valve to the jet wash fluid side.



No.	Name
1	3-way valve

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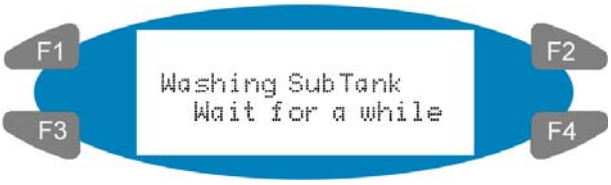
Step 9 : Press the [ENTER] key on the operation panel.

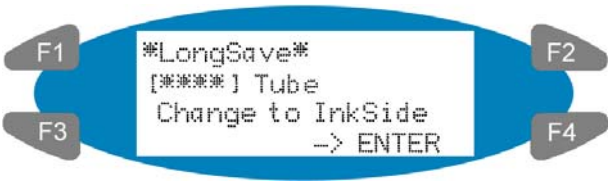
- The product starts washing the sub tank.
- The following message is displayed on the operation panel.



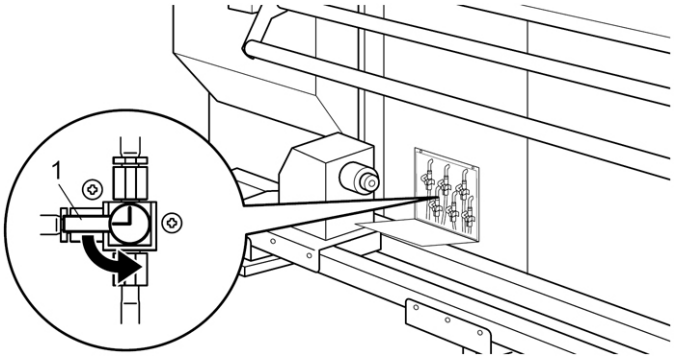
- After completing the injection of the jet wash fluid, the following message is displayed on the operation panel.

⚠ Notes ⚠

- In the [****] part of the message, the colour of the 3-way valve to be operated will be displayed.



Step 10 : Switch the 3-way valve to the ink side.



No.	Name
1	3-way valve

Step 11 : Press the [ENTER] key on the operation panel.

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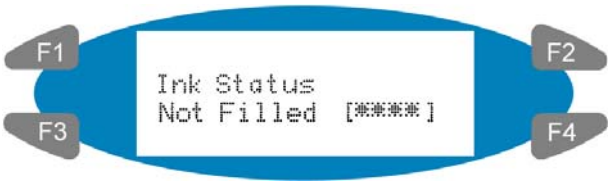
Step 12 : When "ALL" has been selected in Step 7 to 11 is repeated until the long-term storage cleaning treatment has been completed for all print heads.

- When the long-term storage cleaning treatment has been completed for all print heads, the operation panel returns to the normal status.
- The following message is displayed on the operation panel.

⚠ Notes ⚠

- In the [****] part of the message, the colour of finished long-term storage cleaning treatment will be displayed.



Step 13 : Follow the instructions in "Switching the power OFF" to power OFF.

Step 14 : Attach the 3-way cock cover removed in the step 1 and step 2.

- The long-term storage cleaning treatment is completed.

⚠ Notes ⚠

- If the power is switched ON after the long-term storage cleaning treatment has been completed, the printer starts the initial ink filling.

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4 PERIODICAL MAINTENANCE

4.1 DONE BY END USER

4.1.1 Cleaning the printer

Be sure to read and understand the safety warnings before handling the printer.

You need to clean the printer periodically to keep it in best working condition.

4.1.2 Cleaning the outer case

Clean the outer case once a month with a soft, clean cloth.

4.1.3 Cleaning inside the printer

Clean the inside of the printer once a week.

Cleaning Procedure

Step 1 : Open the front cover.

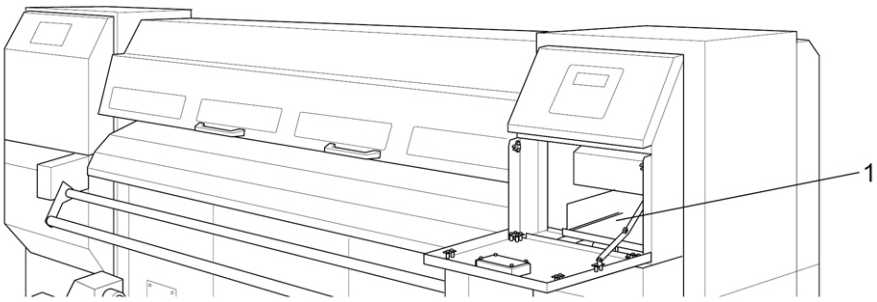
Step 2 : Use a soft brush to carefully clean away any dust or dirt on the pressure roller.

⚠ Notes ⚠

- Do not blow off media dust inside the printer using an air dusting machine. Doing so may cause noise to occur from inside the printer.

Step 3 : The platen and the media guide have to be cleaned with a soft damp cloth for any paper dust or ink that has accumulated.

Step 4 : Soak the poly-knit wiper provided with the unit, and wipe off ink and other dirt from the waste fluid tray.



No.	Name
1	Waste fluid tray

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4.1.4 Cleaning of the print head surface

Be sure to read and understand the safety warnings before handling the printer.

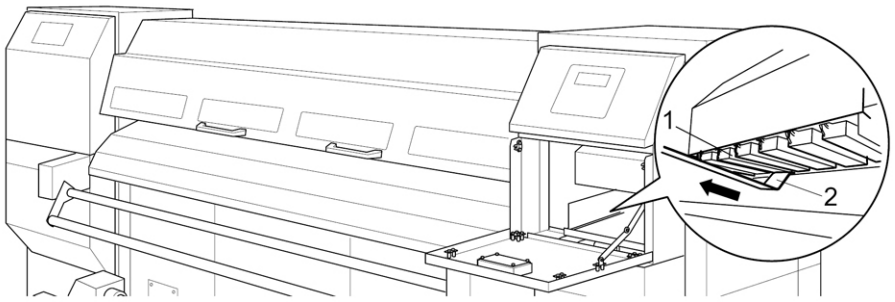
(1) Cleaning period

Clean every day or after the completion of the operation.

(2) Cleaning Procedure

Step 1 : Open the maintenance cover.

Step 2 : Using the attached print head wiper, lightly wipe off the ink accumulated on the print head. Wipe from the back of the printer toward yourself.



No.	Name
1	Print head
2	Print head wiper

Step 3 : Close the maintenance cover.
Ensure that the cover is firmly fixed.

4.1.5 Replacing sponge for spitting box

Be sure to read and understand the safety warnings before handling the printer.

Replace the sponge of the spitting box under the following conditions.

- When a sponge for spitting box hardened.
- When the media becomes dirty with the ink.

Types

⚠ Notes ⚠

- For types and details of the sponge for spitting box, refer to the following.
  “Options/Supply list”

Replacement procedure

Step 1 : Power OFF the unit.

Step 2 : Open the maintenance cover.

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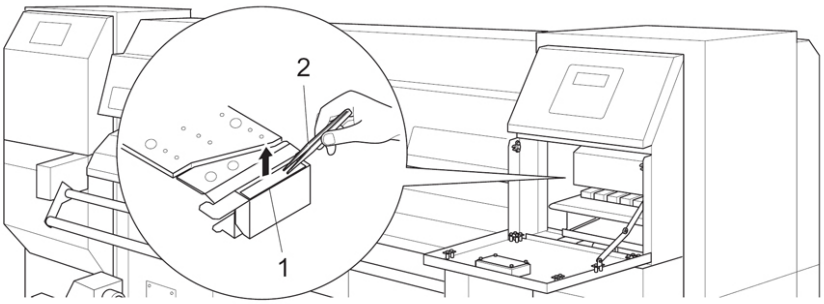
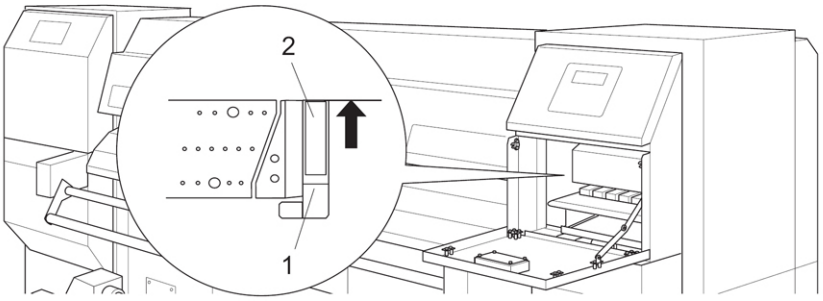
Step 3 : Remove the four sponges of the spitting box with tweezers etc.



No.	Name
1	Sponge for spitting box
2	Tweezers

Step 4 : Install four new sponges for the spitting box.



No.	Name
1	Flushing box
2	Sponge for flushing box

Step 5 : Close the maintenance cover.

Step 6 : The replacement of the sponge for flushing box has been completed.

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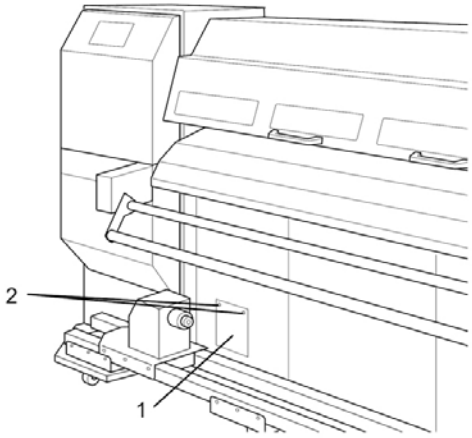
4.1.6 Washing print head

Cleaning Period

If the condition of the print head does not recover when performing the head cleaning, perform the print head washing.

Operational procedure

Step 1 : Loosen the fixing screws for the 3-way valve cover.



No.	Name
1	3-way valve cover
2	Screws to fix 3-way valve cover (2 pcs)

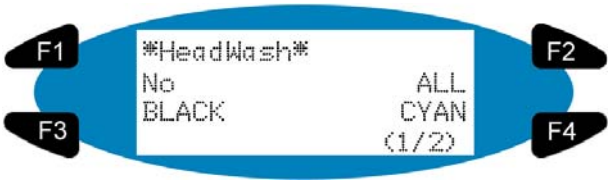
Step 2 : Remove the 3-way valve cover.

Step 3 : Switch the unit ON.

Step 4 : Follow the instructions in "Filling the ink - jet wash fluid" to refill the jet wash fluid.

Step 5 : Follow the instructions in "Disposal the waste fluids" to empty the waste fluid tank.

Step 6 : Follow the instructions in "Menu setup on the operation panel", and bring up the print head washing menu on the operation panel.



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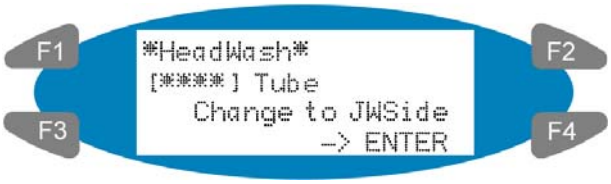
Step 7 : Press the [F1] key to [F4] key to select the print head to perform the print head washing process.

⚠ Notes ⚠

- In the Head wash menu, selecting "ALL" is recommended. By selecting "ALL", the print head washing treatment successively is performed for all print heads one by one.
- When "No" is selected in the Head wash menu, the menu returns to the previous hierarchy menu without performing the print head washing treatment.
- Refer to: “Head wash menu" for more details.

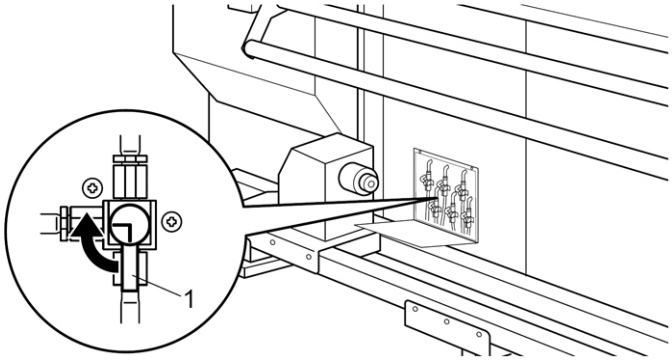
- The product starts the print head washing treatment.
- It takes about 5 to 10 minutes to operate the print head washing treatment.
- The following message is displayed on the operation panel.



⚠ Notes ⚠

- In the [****] part of the message, the colour of the 3-way valve to be operated will be displayed.

Step 8 : Switch the 3-way valve to the jet wash fluid side.



No.	Name
1	3-way valve

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Step 9 : Press the [ENTER] key on the operation panel.

- The product starts washing the print head.
- The following message is displayed on the operation panel.

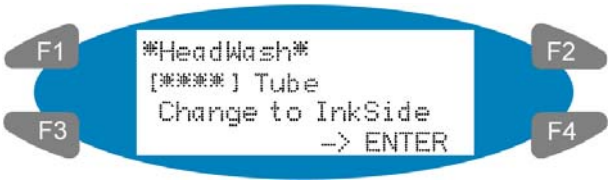
⚠ Notes ⚠

- In the Print head washing treatment, washing print head is automatically repeated for 7 to 14 times.
- When pressing the [CANCEL] key during washing the print head;
  - Washing print head is performed within 7 times: After washing the print head 7 times, the jet-wash fluid is injected from the sub tank.

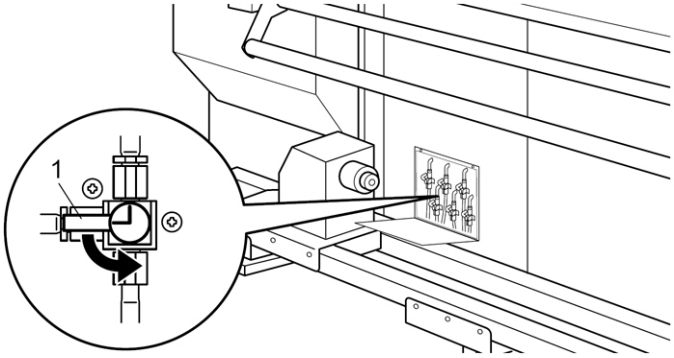
- After completed the injection of the jet wash fluid, the following message is displayed on the operation panel.

⚠ Notes ⚠

- In the [****] part of the message, the colour of the 3-way valve to be operated will be displayed.



Step 10 : Switch the 3-way valve to the ink side.



No.	Name
1	3-way valve

Step 11 : Press the [ENTER] key on the operation panel.

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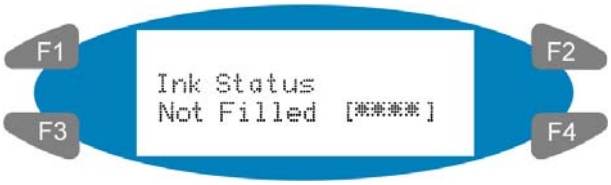
Step 12 : When "ALL" has been selected in the Step 5, Step 6 to 9 is repeated until the print head washing treatment is completed for all print heads.

- When the print head washing treatment has been completed for all print heads, the operation panel returns to the normal condition.
- The following message is displayed on the operation panel



⚠ Notes ⚠

- In the [****] part of the message, the colour of the print head to be washed will be displayed.

Step 13 : Follow the instructions in "Switching the power OFF" to power OFF.

Step 14 : Set the 3-way valve cover removed in steps 1 and 2.

The print head washing treatment has been completed.

⚠ Notes ⚠

- If the power ON after the print head washing treatment is completed, the product starts the initial ink filling.

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4.2 DONE BY AN AUTHORIZED MUTOH TECHNICIAN

4.2.1 Replacing ink filter

Replacement period

Replace the ink filter once a year.

Replacement procedure

The ink filters are replaced in a periodic inspection.

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5 PREPARATIONS BEFORE PRINTING

5.1 USING MEDIA

5.1.1 Media type

The type and quality of the media effects the printing results. Understand the description below and use the appropriate media for your purpose.

⚠ Notes ⚠

- For more information about the recommended media, contact your local MUTOH dealer.
- Problems that occur due to use of non-recommended media are not guaranteed.

⚠ Notes ⚠

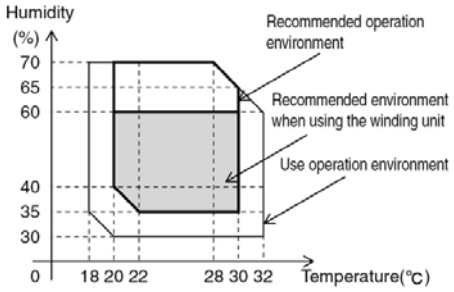
- When using the recommended media, the setting values for the printing quality are set for each media type.
- When printing on media other than those specified, information regarding proper settings for the media type and settings for the product can be found on the instructions for the media, or contact the retailer of the media.

5.1.2 Cautions on handling media

- Use the recommended media in an appropriate environment.

Be sure to read and understand the safety warnings before handling the printer.

Following are the temperature and humidity ranges appropriate for printing.



- Do not use any of the following media.
  - Media with crease, scar, tear, twist or media which tends to curl
  - Welded media
- The size of the recommended media can change at a fixed ratio according to the temperature changes of the working environment. Before using the media, place the media in the working environment for at least 30 minutes, to have it match the temperature of the working area.
- Printing before media is adjusted to the printing environment may cause media jams due to slippage or creases. This also adversely affects the quality of printing.
- Media has a printable side and a non-printable side. If you print on a non printable side, blurring or slight touching may occur.
- Do not touch the printable side of media. Moisture and/or oil from hands affect(s) the printing quality.
- Do not leave the printer for a long time with media loaded. The media may curl resulting in misalignment of media, media jams, or decreased printing quality. In practice, avoid this in winter, dry seasons, or during final printing.
- Do not lose the box or rapping bag for storing media.

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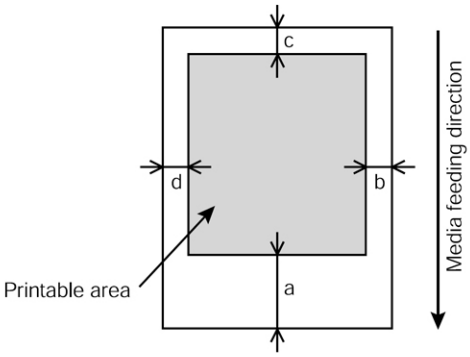
5.1.3 Precaution on storing media

⚠ Notes ⚠

- Store media away from high temperature, high humidity or direct sunlight.
- Unused roll media must be removed from the scroller, rewound tightly, and stored in the original wrapping bag and the box.
- Do not wet media.

5.1.4 The printing area

Printing areas of each media with the printer are as shown below.



Media width: 1000mm~2299mm	Media width: 2300mm~2600m
a=100mm	a=100mm
b=25mm	b=50mm
c=0mm~50mm	c=0mm~50mm
d=25mm	d=50mm

⚠ Notes ⚠

- Printing margin C of the media feed direction is preset at the factory to 0mm as the initial value. To change printing margin C, reset it by following the steps in "Menu setup on the operation panel".
- Set the continuous printing item to "ON".
  Refer to: “Joint printing menu”
- Change the value in the continuous margin item.
  Refer to: “Joint margin menu”
- Printing margin A of the media feed direction becomes 0 mm automatically for following cases.
- When the continuous printing has been set as "ON".
  Refer to: “Joint printing menu”

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5.1.5 Criteria for the media feed

The criteria for the media feed that can be used for this product are as follows.
Before using media, confirm the following evaluation items.

⚠ Notes ⚠

- Among the following items, if following problems occurred, may not be warranted even if the Maintenance contract has been concluded. (Repair may require expense.)
- No.1 to 3, 6 to 8, 13, 14

⚠ Notes ⚠

- Please refer to: "Menu setup on the operation panel" for details of the setup menu.

No.	Evaluation Item	Evaluation Method	Criteria
1	Paper float, cockle, friction	1. Set "High" for the print head height menu of the operation panel. 2. Confirm the following operation. • Perform no printing, media feed only. • Perform 4m printing by 200% print.	• No Paper float, cockle, friction • Or media should not make friction with the print head nozzle.
2	Anti static	1. Set following items for the Printing mode menu of the operation panel. • Printing quality:360dpi×180dpi • Printing direction: Bi-direction 2. Perform a printing of one-roll (min.20m).	No error printing, error feed, and machine-stop.
3	Slant	1. Set following items for the Printing mode menu on the operation panel. • Printing quality:360dpi×360dpi • Printing direction: Uni-direction 2. Perform printing.	Within 30m±0.1% with left/right edge of the media as the baseline
4	Detect the end of roll media.	After Media setting, confirm the end of roll media.	No error for detection of the end of roll media.
5	Media sensor	After Media setting, detect media.	No error for media detection sensor.
6	Weight, Diameter, Number of rolling	Confirm media visually.	• Max. 2600 mm • External diameter: Max. 250 mm • Weight: Max. 140kg
7	Thickness	Confirm media visually.	Within 0.08 mm-1.0 mm
8	Rolling start of cardboard core	Confirm media visually.	• Media breakaway without cardboard • core lift • No remains of adhesives on media.
9	Condition of both edges of roll media	Confirm media visually.	Align the edges equally. Tolerance: +2.0 mm, -1.5 mm • The printable side is outside. • Printable side with inside will not be guaranteed.
10	Roll direction	Confirm media visually.	

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No.	Evaluation Item	Evaluation Method	Criteria
11	Damage, wrinkle, stain, foreign materials on media	Confirm media visually.	No damage, wrinkle, stain, and foreign materials on media.
12	Cardboard core I.D.	Confirm card board core visually.	• Diameter: 3". (tolerance:±3mm) • • Length: Max. 2640mm • Projection from the edge of roll • media: o Right: Max. 25 mm o Left: Max. 25 mm • Full insertion of scroller to media flange. • No slipping
13	Curl	Confirm media visually.	• No float by the curl when sticking media to the media guide. • No friction with the print head nozzle during printing.
14	Scuffing	Confirm media visually.	No scuffing on media surface and edge face.

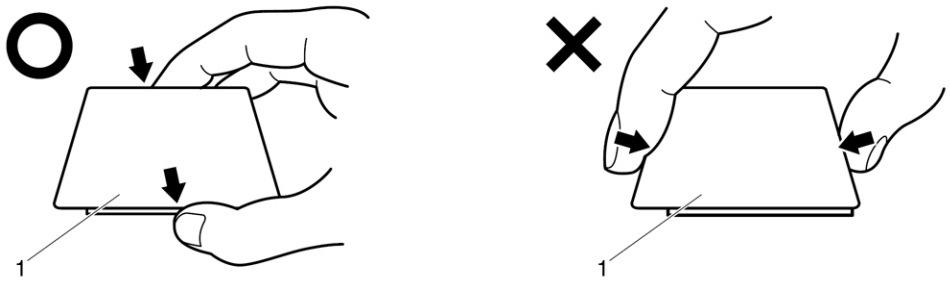
5.1.6 Installing media retainers

Variations in quality and used conditions could cause the edges of the media to curl, resulting in damage to the media by the print head surface. To prevent this, use the media retainers to reduce curling of the media.

Use the following procedure to install the media retainers.

Handling the media retainers:

When installing and removing the media retainer, handle it as shown in the figure below.
Mishandling the media retainer could result in bent metal parts that interfere with the print head.



No.	Name
1	Media retainer

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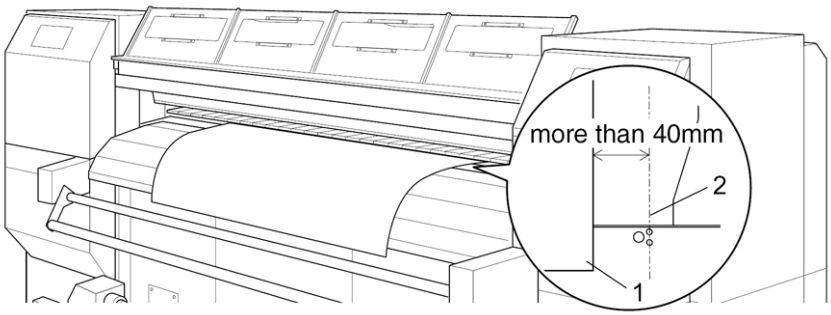
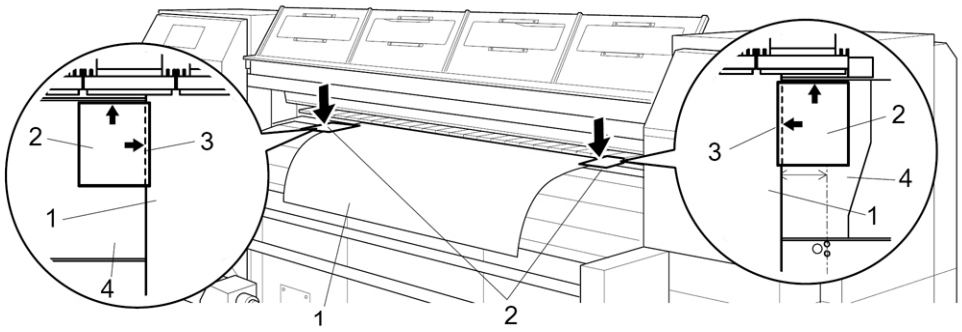
Installing procedure:

Step 1: Load the media so that the distance from the edge of the media to the media loading position is at least 40 mm.
Refer to: “Loading roll media”



No.	Name
1	Roll media
2	Media loading position

Step 2: Align the alignment line on the media retainers to the edge of the media with, and install the media retainers on the platen as shown on the image below.



No.	Name
1	Roll media
2	Media retainers
3	Alignment line
4	Platen

⚠ Notes ⚠

- When installing the media retainers, be sure that the magnet in the rear does not stick out from the stainless steel part of the platen to prevent that the media retainers will come off and interfere with the print head.

Step 3: Make sure that the media retainers do not interfere with the media as it is fed through the printer.

⚠ Notes ⚠

- If there is interference with the media as it is fed through the printer even after the media holder plate has been installed, the media retainer should not be used.
- When removing the media retainer, slide the plate on the platen for near side.

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5.2 HEAD CLEANING BEFORE PRINTING

Be sure to read and understand the safety warnings before handling the printer.

When used?

Before printing, perform purge and head cleaning to clean the print head surfaces and the nozzles.

Procedure:

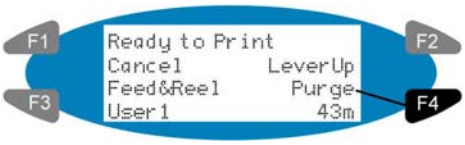
The procedure consists of 2 parts.

5.2.1 Perform a purge

Step 1 : Switch ON the printer.

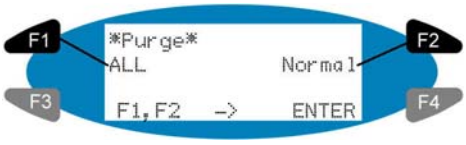
Step 2 : Verify the product is in the normal status.

Step 3 : Press the [F4] key of the control panel. See below.



Step 4 : Press the following keys on the control panel to change the settings :

- [F1] key: changing the ink colour
- [F2] key: changing the purge Mode



⚠ Notes ⚠

- The factory default settings (initial values) are set as follows.
  - Ink Colour: All
  - Purge mode: Normal
- Normally, there is no need to change the settings.
- For details on the settings, refer to "Head cleaning".

Step 5 : Press the [ENTER] key on the control panel.

- The settings are confirmed.
- The unit will start the purge process.
- Following message appears:

⚠ Notes ⚠

- When the [CANCEL] key on the control panel is pressed in the purge menu, the unit will return to normal status without performing the purge process.

Step 6 : Wait until the purge process is completed for all print heads and the control panel has returned to the normal status.

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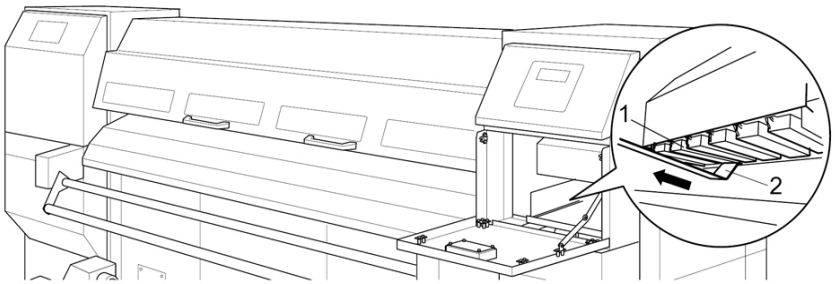
5.2.2 Wipe the heads

Step 1 : Open the maintenance cover.

Step 2 : Put the purge plate down the purge stand.

Step 3 : Lightly wipe off the ink accumulated on the print head using the attached print head wiper. Wipe from the back to the front of the head surface.



No.	Name
1	Print head
2	Print head wiper

⚠ Notes ⚠

- All print head surfaces should be wiped off, even after purging 1 colour only. Otherwise, ink may drip from the print head at which purging was not performed.

Step 4 : Lift the purge plate to fix it.

Step 5 : Close the maintenance cover; ensure that the cover has been firmly fixed.

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5.3 SET THE CORRECT DISTANCE ADJUST (STEP)

Be sure to read and understand the safety warnings before handling the printer.

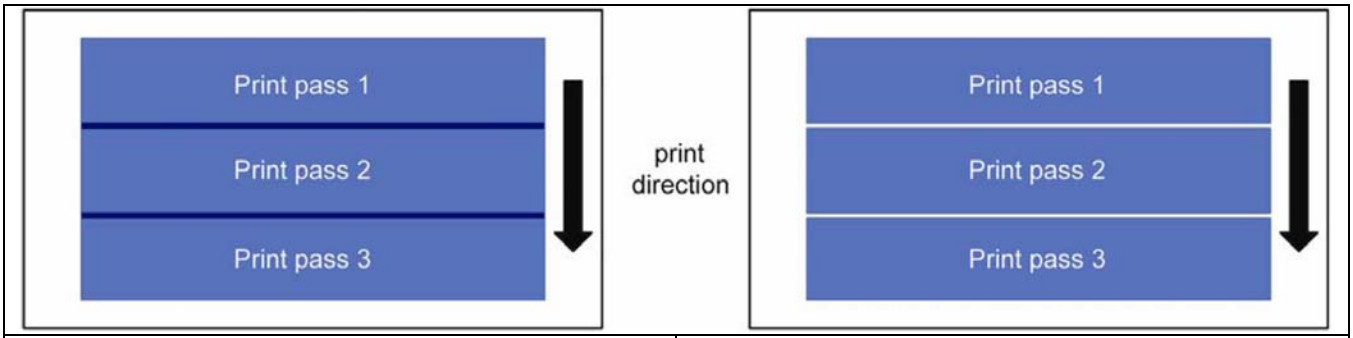
Obtaining constant printing quality on an Osprey is not only determined by the working environment, the RIP, the profiles, the inks and the media which are used. One of the key factors for obtaining constant output quality is the correct distance adjustment, also called step.

5.3.1 Basics about the step

Every image is printed in several print passes. After every pass, the media is fed an amount of millimetres. When the step is not set correctly the passes will overlap each other or will not be printed precisely next to each other which results in white bands between two print passes.

Therefore a function, distance adjust (or step), is added to the menu to control this feed operation.

Refer to the table below for visual support.



The passes overlap each other ►Step between the print passes is too small	The passes are printed too far from each other ►Step between the print passes is too large

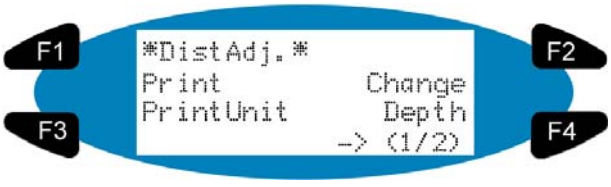
Procedure:

⚠ Notes ⚠

- It is recommended to start printing with a step of 100.00% and to adjust it afterwards. Once a step is set for a particular media it will not change on following conditions:
  - o The step is only applicable on the printer in question and not interchangeable.
  - o The media manufacturer does not change any specifications of the media.

Step 1: Go to the ‘Media feed compensation’ menu on the operation panel by following "Menu setup on the operation panel". See image below.

- The ‘Media feed compensation’ menu is named ‘DistAdj.’ menu on the operation panel.
- Refer to: “Printing by Media feed compensation menu” for more details about all the functions in the ‘Media feed compensation’ menu.



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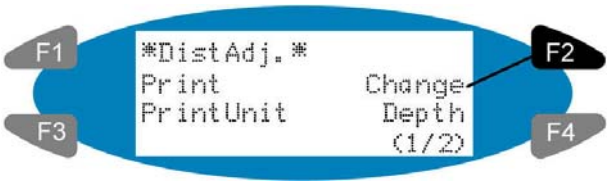
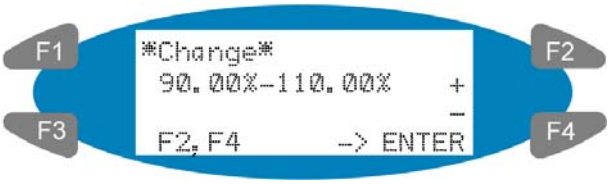
Step 2: Push the [F1] key on the operation panel to perform printing by media feed compensation.

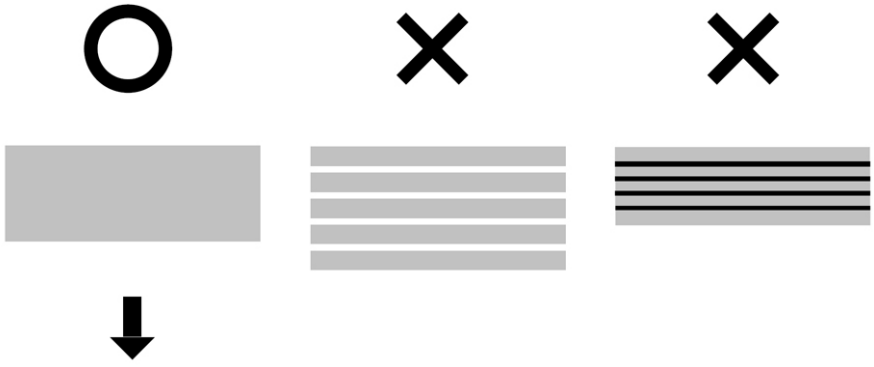
Step 3: When printing with media feed compensation has been finished, push the [CANCEL] key on the operation panel.



Step 4: Press the [F2] key of the control panel to change the media feed value.



Step 5: Push the [F2] key or [F4] key on the operation panel to increase (+) or decrease (-) the media feed value, using the print result, examples shown below.



Step 6: Push the [ENTER] key on the operation panel to save the adjusted value.

- After setting, shift to the previous upper menu.

Step 7: Repeat Step 2 to Step 7 until a good print result has been obtained.

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5.4 PRINTING FLOW

The following chart illustrates the procedure for drawing with the printer. Refer to each item as necessary.

1. Make the printing data
Make the printing data using application software (RIP).

↓

2. Switch ON the printer and load media into the printer.
Refer to: “Media handling”
Refer to: “Using media”

↓

3. Perform head cleaning before printing.
Refer to: “Head cleaning before printing”

↓

4. Make the preference setting for printing with the printer.
Refer to: “Menu setup on the operation panel”

↓

5. Start printing.
Refer to: “Operating from the operation panel”

↓

6. Perform after-printing operations.
Refer to: “Operations after printing”

⚠ Notes ⚠

- Do not open the front cover during printing. Doing so may stop the printer to print.
  Though the printer resumes printing after you close the front cover, the quality of printing cannot be guaranteed.

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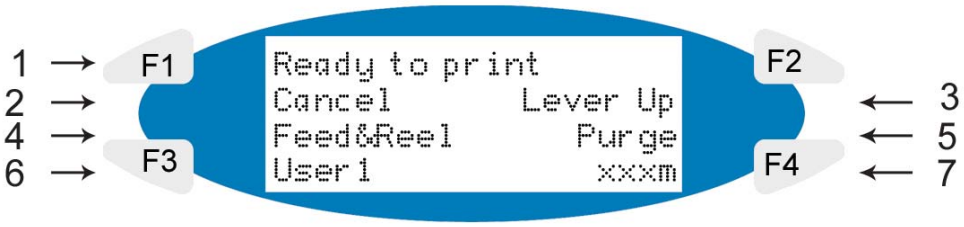
6 PRINTER MENU

6.1 HOW TO WORK IN THE MENU

Please find below all necessary information on how to switch, select and cancel menu items.

6.1.1 Main screen

When powering ON the printer, it will (when no errors occur) start up in its main screen. The function of each key is explained below.



No	Description	Example
1	Displays the current status of the printer	Ready to print
2	Displays the function assigned to the [F1] key	Cancel
3	Displays the function assigned to the [F2] key	Lever Up
4	Displays the function assigned to the [F3] key	Feed&Reel
5	Displays the function assigned to the [F4] key	Purge
6	Displays the currently set media type	User 1-8
7	Displays the approximate amount of remaining media in metre. However, the amount is displayed only when either 3roll media 1" Roll media 2" or "Roll media 3" is selected in the roll media setting menu.	30m

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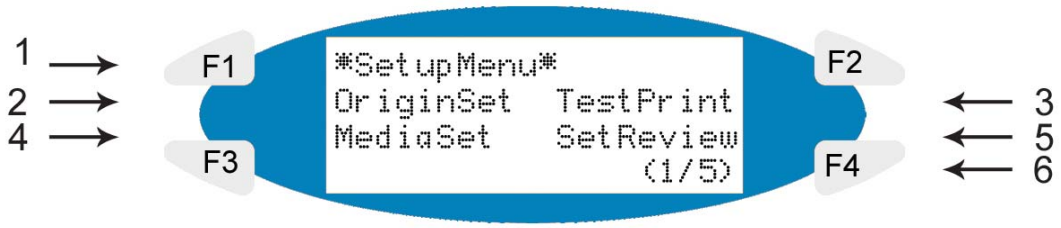
6.1.2 Menu screen

In the SetupMenu, changes can be made to the printer settings. The content displayed on the LCD monitor of the operation panel is as follows



No	Description	Example
1	Displays the setting menu name currently set	SetupMenu
2	Displays the function assigned to the [F1] key	OriginSet
3	Displays the function assigned to the [F2] key	TestPrint
4	Displays the function assigned to the [F3] key	MediaSet
5	Displays the function assigned to the [F4] key	SetReview
6	Displays the currently available functions of the [F1] key to the [F4] key or displays the page status if there are multiple pages for the currently displayed setting menu.	1/5

6.1.3 Changing between the screens

To change the printer status, follow the steps below.

6.1.3.1 From the main menu to the menu screen

Press either ▲ or ▼ on the operation panel when the printer is in the main screen to go to the menu screen.

6.1.3.2 From the menu screen to the main screen.

To switch from a menu screen to the main screen, following actions can be taken:

- Press the [CANCEL] key on the operation panel
- Leave the printer fro 3 minutes when the status is in the setting menu display.

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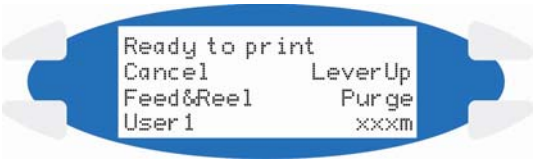
6.2 OPERATION PANEL IN STANDBY MODE

This section describes functions operated on the operational panel when the printer is in the normal status.

6.2.1 [F1] – Cancel

When data is being received and you want to cancel this operation, press the [F1] key to cancel the transfer

Step 1 : Verify the following regarding the condition of the printer.
- ➢ It is not currently printing

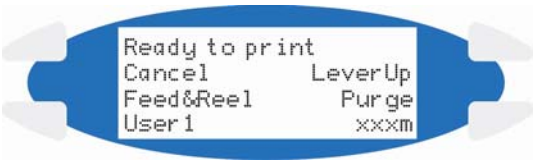


Status of the printer	Operation after the [F1] key is pressed
While printing	Stops printing and deletes data remaining in the printer.
While receiving/ converting	Deletes the data already received and converted, then deletes data from now on.
While waiting for the ink drying time	Stops waiting for the ink drying time and discharges the media.

6.2.2 [F2] - Operating the pressure rollers

When you want to switch the up and down movement of the pressure rollers follow the steps below.

Step 1 : Press the [F4] key on the operation panel.
- ➢ The printer works as follows.



Status of the printer	Operation after the [F4] key has been pressed
The pressure rollers have been lowered The MEDIA SET lamp switches OFF.	The pressure rollers are lifted The MEDIA SET lamp will turn on (orange).
The pressure rollers have been raised. The MEDIA SET lamp switches ON (orange).	The pressure rollers are lowered. The MEDIA SET lamp will turn off.

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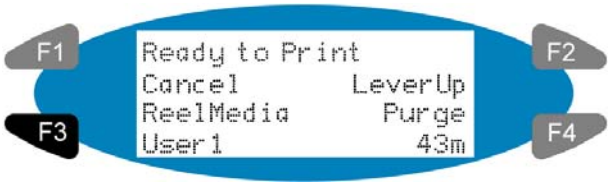
6.2.3 [F3] – Winding the roll media

Perform winding of the media according to the procedure below.

Step 1: Verify that the printer is not printing

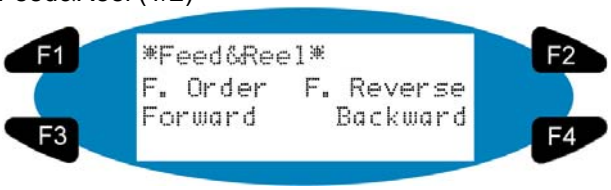
Step 2: Press the [F3] key on the control panel. See below.



Step 3: Press the appropriate key in the 'Feed&Reel' menu, press [F1] key to [F4] key or the down key to shift to the second 'Feed&Reel' menu.

- The printer works as follows:

Feed&Reel (1/2)



Feed&Reel (2/2)

Setup items	Parameters	Descriptions	Remarks
Feed & Reel	F. Order	The winding unit rotates in the advance direction. The roll media will be wound up by the winding unit.	This function is displayed when "ON" is selected in the Winding unit menu. Refer to: "Winding unit menu"
	F. Reverse	The winding unit rotates in the reverse direction. The roll media will be unrolled back out of the winding unit.	
	Forward	Feeds media forward.	This function is displayed when the media is set.
	Backward	Feeds media backward.	This function is displayed when the media is set.
	R. Reverse	The feed unit rotates in the reverse direction. The roll media will be unrolled back out of the feed unit.	This function is displayed when the pressure roller is up.

⚠ Notes ⚠

- When selecting "R. Reverse" to rewind the roll media, not to over-rewind. The scroller may come up from the winding unit and drop out.

⚠ Notes ⚠

- The Operating directions of the winding unit and the roll media are shown below.

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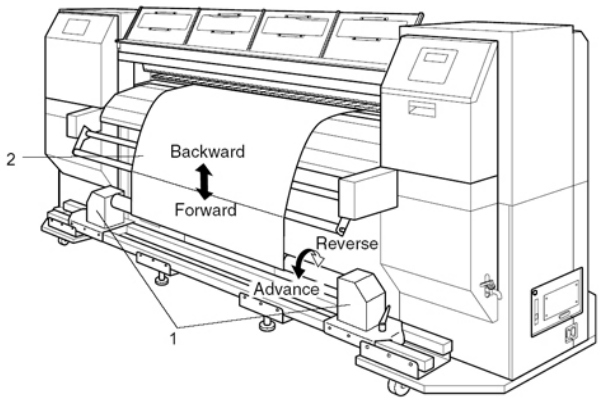
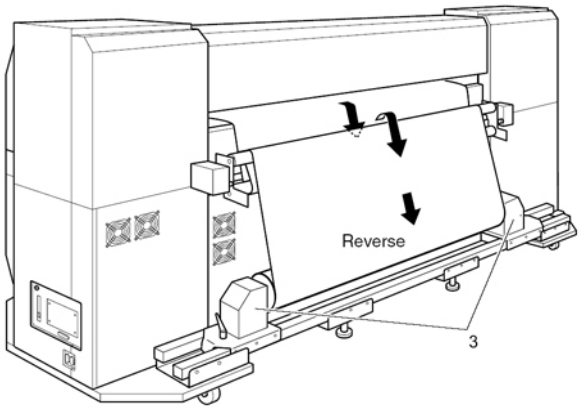
a. Front section



b. Rear section



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6.2.4 [F4] - Cleaning the heads

Procedure:

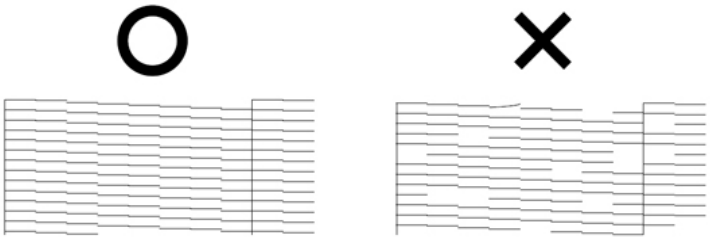
Step 1: Verify that the printer is at normal status.

Step 2: Follow "Testprinting", and perform a nozzle check print.

Step 3: Refer to the illustrations below to verify the condition of the print head.

a. Nozzle Check 1

b. Nozzle Check 2



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Step 4: Perform head cleaning according to "Head cleaning before printing".

⚠ Notes ⚠

- For the settings on the purge menu, see table on the next page.
- The < > in the table are default factory settings (initial values).

Setup items	Key name	Parameters	Descriptions
Ink colour	F1	<All2>	The ink colour to be purged is selected. • All2: Print head purge processes are performed for each colour at the same time. This item uses to stabilize condition of the print head nozzle. • All: Print head purge processes are performed for each colour • Other: Print head purge processes are performed for the selected colour
		All	
		Black	
		Cyan	
		Light Cyan	
		Magenta	
		Light Magenta	
		Yellow	
Purge mode	F2	Economy (All2 only)	The amount of ink discharged during the purge process is selected. • Economy: The ink is discharged less than in the "Normal" mode. • Normal: Recommended in this process. • Powerful: The ink is discharged more than in the "Normal" mode. Select when the print head can not be recovered by performing "Normal" mode. • Continuous: Purge process is performed individually for "Normal" mode.
		<Normal>	
		Powerful (All2 only)	
		Continuous	
		–	[CANCEL] key: Finishes the purge process when "Normal" mode is selected.

Step 5: After head cleaning, perform nozzle check printing again, and check the condition of the head.

⚠ Notes ⚠

- If the smearing or misprinting has not been solved after performing a cleaning one time, change the ink colour and the purge mode to the following settings, then repeat the head cleaning.
  - Ink colour: except "All2"
  - Purge mode: "Normal"
- If the smearing or misprinting has not been solved after performing a cleaning a few times, please refer to: Troubleshooting", and take appropriate measures.
- If printing problems are not corrected by increasing purge mode to "Powerful", clean off the print head surface using a poly-knit wiper soaked in jet wash fluid, then perform head cleaning again.

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6.3 OPERATION PANEL DURING PRINTING

When sending a file to your printer, following messages can be displayed.

6.3.1 *Parameter change*

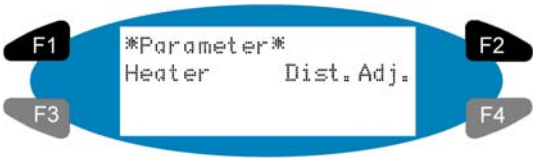
Step 1 : Verify that the printer is in the following operations.

- Receiving data
- Analysing data
- Printing data

Step 2 : Press the [F3] key on the operation panel to shift to the Parameter menu.

Step 3 : Press the [F1] key or the [F4] key in the 'Parameter' menu on the operation panel.

- The printer performs following operations:



Setup items	Parameters	Descriptions
Parameter	Heater	Perform following operations. • Checking heater temperature • Setting each heater temperature
	Dist Adj.	Change media feed compensation value.
	–	• [CANCEL] key: Returns to the normal status.

Step 4 : Adjust the parameters of the heaters or media feed. See below for further explanation.

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6.3.2 HEATER

Checks and setups the heater temperature.

Setup items	Parameters	Descriptions
Heater	Temp Check	To check each heater temperature.
	Platen	To change platen-heater temperature.
	Drier	To change drier temperature.
	Updateparam	Saves the set up parameter.
	–	[CANCEL] key: Shifts to the previous hierarchy menu.

⚠ Notes ⚠

- The changed parameters are available for the current printing, but the settings will be not saved. To save the setting, be sure to perform the "Updateparam".

6.3.3 Media feed compensation

Changes the media feed compensation value.

Setup items	Parameters	Descriptions
Dist Adj.	Change	To change the media feed compensation value.
	Updateparam	T o save the set up parameter.
	–	[CANCEL] key: Shifts to the previous hierarchy menu.

⚠ Notes ⚠

- The changed parameters are available for the current printing, but the settings will be not saved. To save the settings, be sure to perform the "Updateparam".

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6.3.4 Changing Printing Mode

When the product is at a normal condition, press the [ENTER]-key to change the setup of the Printing Mode.

Step 1: Press the [ENTER] key on the control panel.

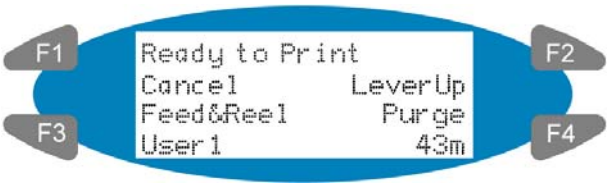
- The printer will shift to the 'Printing mode' Setup menu.

Step 2: Press the [F1] till [F4] keys to change Printing mode. See table below for further information.

Setup items	Key name	Parameters	Descriptions
Printing quality	F1	360dpi×180dpi	To set the printing quality to 360 dpi × 180 dpi
		360dpi×360dpi	To set the printing quality to 360 dpi × 360 dpi
		360dpi×720dpi	To set the printing quality to 360 dpi × 720 dpi
InterLace Setup	F2	OFF	To set the interlace method to OFF.
		2 pass	To set the interlace method to two path.
Priority	F3	Quality preference	To set the priority to Quality preference.
		Speed preference	To set the priority to Speed preference.
Printing direction	F4	Uni Dir.	To set the printing direction to uni-direction.
		Bi Dir.	To set the printing direction to bi-direction.

Step 3: Press the [ENTER] key after completion of setup.

- The setup has changed and the product shifts to the normal condition.



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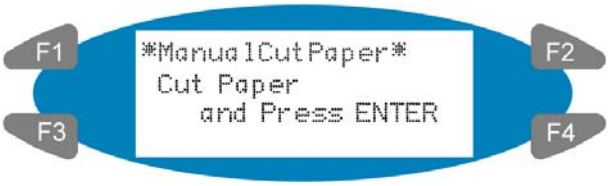
6.4 OPERATIONS AFTER PRINTING

6.4.1 Roll media cutting procedure

Be sure to read and understand the safety warnings before handling the printer.

After printing, the roll media will automatically advance to the media cut position.

The following message is displayed on the operation panel:

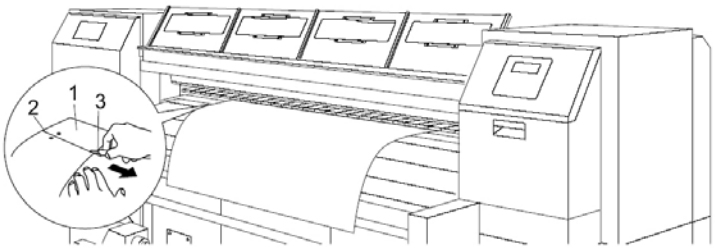


Cut the roll media according to the following procedures.

(1) When "Manual" has been selected in the media cut menu

Step 1: Open the front cover.

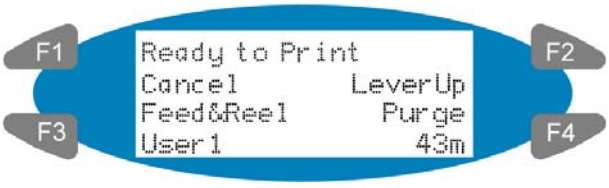
Step 2: Place a razor blade on the media cut groove on the platen, and cut the roll media.



Step 3: Close the front cover.

Step 4: Press the [ENTER] key of the control panel.

- The unit enters the normal status.



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(2) When "OFF" is selected in the media cut menu

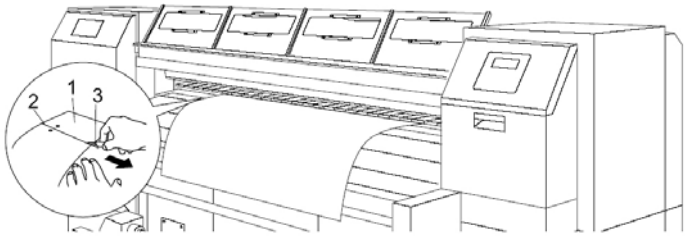
Step 1: Verify.

- There is no printing operation being performed.
- The control panel is in a normal status.
- The control panel MEDIA SET lamp has to be unlit.

Step 2: When altering the position where the roll media has to be cut, do so in the home position setup menu in "Menu setup on the operation panel", and advance the roll media to the position that needs to be cut.

Step 3: Open the front cover.

Step 4: Place a razor blade (3) on the media cut groove on the platen, and cut the roll media.



Step 5: Close the front cover.

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6.5 SETUP MENU

Setup Menu
- (1/5) F1 **OriginSet**
- F2 **TestPrint**
  - (1/4) F1 Setup
    - F2 SetupAll
    - F3 NzlChk1
    - F4 NzlChk2
  - (2/4) F1 Uni-Qlty1
    - F2 Uni-Qlty2
    - F3 Uni-Spd1
    - F4 Uni-Spd2
  - (3/4) F1 Bi-Qlty1
    - F2 Bi-Qlty2
    - F3 Bi-Spd1
    - F4 Bi-Spd2
  - (4/4) F1 Palette
- F3 **MediaSet**
  - F1 Media (User1….User18)
    - (1/3) F1Ink Dry timer
      - F2 H. Height
      - F3 Stiffness
      - F4 Lever Press.
    - (2/3) F1 Heater
      - F2 Drier
      - F3 Prev. Stick
      - F4 Dist. Adj.
        - Print
        - PrintUnit
        - Datasize
          - PF
          - CR
    - (3/3) F1 IdleHeat
      - Heater
      - Drier
      - F2 IdleTimeOut
        - Heater
        - Drier
  - F2 MediaCut
    - OFF
    - Manual
- F4 **SetReview**
  - (1/4) PaperDet.
    - PaperWidth
  - (2/4) HeaterTemp
    - DrierTemp
  - (3/4) Flushing
  - (4/4) LeverPress.
- (2/5) F1 **PrintMode**
  - (1/2) PrnMode1
    - (1/2) F1 Condition
      - F1 360x180
      - F2 360x360
      - F3 360x720
    - F2 Priority
      - F1 Quality
      - F2 Speed
    - F3 Direction
      - F1 UniDir
      - F2 BiDir
    - F4 RepeatPrn.
      - F1 Count
      - F2 Intervaltime

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(2/2) F1 Effect
(1/2) F1 None1
F2 None 2
F3 Wave 1
F4 Wave 2
(2/2) F1Fine&W1
F2 Fine&W2
F3 NozzleODD
F4 NozzleEVN
F2 PrnMode2
F3 PrnMode3
F4 PrnMode4
(2/2) F1 Effect
(1/2) None1
None2
Wave1
Wave2
(2/2) Fine&W1
Fine&W2
NozzleODD
NozzleEVN

F2 **Command**
F1 Resolu.
(1/2) F1 180dpi
F2 300dpi
F3 360dpi
F4 540dpi
(2/2) F1 600dpi
F2 720dpi
F2 Online Timer

F3 **Layout**
F1 Joint
F1 OFF
F2 ON
F2 JointMargin
F4 **Function**
F1 CMY->K
No
Yes
F2 Mirror
F1 OFF
F2 ON

(3/5) F1 **RollSetup**
F1 Disable
F2 Roll1
F3 Roll2
F4 Roll3
F2 **Centro**.
F1 Centro
F2 BiCentro
F3 **Network**
F1 IPAdress
F2 SubnetMask
F3 Gateway
F4 **Backup**

(4/5) F1 **Utility**
(1/2) F1 ErrorDisp
F1 OFF
F2 ON
F2 PaperDet.
F1 Yes
F2 No
F3 TakeUpUnit
F1 OFF
F2 Outside
F3 Inside

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F4 LoadUnit
F1 Inside
F2 Outside
(2/2) F1 NgPress
F2 PaperSlant
F1 OFF
F2 ON
F3 flushing
F1 OFF
F2 Left
F3 both
F4 ModePrint
F1 OFF
F2 ON

F2 **FileMng**.
(1/2) F1 WriteMode
F1 OFF
F2 WritePrn
F3 Wrtie>Prn
F4 WriteOnly
F2 Replot
F3 Delete
F4 Rename
(2/2) F1 Format
F1 No
F2 OK
F2 FreeArea

F3 **Initial**
(1/3) F1 All
NO
OK
F2 MediaSet
NO
OK
F3 PrintMode
NO
OK
F4 Command
NO
OK
(2/3) F1 Layout
NO
OK
F2 Function
NO
OK
F3 RollSetup
NO
OK
F4 Centro.
NO
OK
(3/3) F1 Network
NO
OK
F2 Utility
NO
OK
F3 FileMng
NO
OK

(5/5) F1 **DataDump**
F1 Start/End
F2 All

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F2 **HeadWash**

(1/2) F1 No
F2 All
F3 BLACK
F4 CYAN

(2/2) F1 L.CYAN
F2 MAGENTA
F3 L.MAGENTA
F4 YELLOW

F3 **LongSave**

(1/2) F1 No
F2 ALL
F3 BLACK
F4 CYAN

(2/2) F1 L.CYAN
F2 MAGENTA
F3 L.MAGENTA
F4 YELLOW

F4 **Mainte**.

(1/6) F1 CR Motor
F2 E * * * * * F
F3 PF Motor
F4 E * * * * * F

(2/6) F1 Lever M
F2 E * * * * * F
F3 HeadU/D M
F4 E * * * * * F

(3/6) F1 Takeup M
F2 E * * * * * F
F3 Send M
F4 E * * * * * F

(4/6) F1 Head K
F2 E * * * * * F
F3 Head C
F4 E * * * * * F

(5/6) F1 Head Lc
F2 E * * * * * F
F3 Head M
F4 E * * * * * F

(6/6) F1 Head Lm
F2 E * * * * * F
F3 Head Y
F4 E * * * * * F

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